

INDEX

[illegible]


FILE NAME											G:\44302\03 - Design\001422G SR 14 Lieser Rd Br - Emergency Br Repair\20-CADD-Plans\20-2 PS&E Sheets\001422G_PS_INVN_INDEX AND VICINITY MAP.dgn											
TIME		10:21:51 AM												REGION NO.		STATE		FED.AID PROJ.NO. ER-STBG-2C05001				
DATE		6/15/2023												10		WASH						
PLOTTED BY		GregorR																				
DESIGNED BY		R. GREGORIO														JOB NUMBER		LOCATION NO. XL6636				
ENTERED BY		CGAEO														22X347						
CHECKED BY		T. HARTMANN														CONTRACT NO.						
PROJ. ENGR.		M. BRIGGS																				
REGIONAL ADM.		C. FRANCIS																				
						REVISION				DATE		BY										

INDEX (CONTINUED)

[illegible]

	PLAN
	REFERENCE
	NO.
	SHEET
	OF
	SHEETS

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

<div style="text-align: right;">DATE _____</div> <div>P.E. STAMP BOX</div>		 <p>Washington State Department of Transportation</p>	SR 14 LIESER ROAD BRIDGE EMERGENCY BRIDGE REPAIR	<div>Plot 24</div> <hr/> <div>PLAN REF. NO.</div> <div>IN1</div>
			INDEX	<div>SHEET</div> <div>5</div> <div>OF</div> <div>48</div> <div>SHEETS</div>

PROJECT LICENSED PROFESSIONAL CERTIFICATES


 Mike Briggs Jul 26, 2023 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	 LisaRene Schilperoort Jul 26, 2023 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	 Amy C Leland Jul 26, 2023 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	 Richard Zeldenrust Jul 26, 2023 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
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NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION
OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS
OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.

FILE NAME		G:\444302\03 - Design\01422G SR 14 Lieser Rd Br - Emergency Br Repair\20-CADD-Plans\20-2 PS&E Sheets\01422G_PS_INVN_INDEX_AND VICINITY MAP.dgn										Plot 22	
TIME		10:37:50 AM						REGION NO.		STATE		FED.AID PROJ.NO. ER-STBG-2C05001	
DATE		6/15/2023						10		WASH			
PLOTTED BY		GregorR											
DESIGNED BY		R. GREGORIO						JOB NUMBER				LOCATION NO. XL6636	
ENTERED BY		CGAEO						22X347					
CHECKED BY		T. HARTMANN											
PROJ. ENGR.		M. BRIGGS						CONTRACT NO.					
REGIONAL ADM.		C. FRANCIS											
		REVISION		DATE		BY							



Washington State
Department of Transportation

SR 14
LIESER ROAD BRIDGE
EMERGENCY BRIDGE REPAIR

CERTIFICATION SHEET


PLAN REF NO
CT1

SHEET
6
OF
48
SHEETS



LIESER ROAD
SOUTH BRIDGE APPROACH

FILE NAME										G:\444302103 - Design\ID01422G SR 14 Lieser Rd Br - Emergency Br Repair\20-CADD-Plans\20-2 PS&E Sheets\ID01422G_PS_RS ROADWAY SECTION										Plot 1			
TIME										5:11:25 PM										REGION NO.	STATE	FED.AID PROJ.NO.	PLAN REF NO
DATE										6/15/2023										10	WASH	ER-STBG-2C05001	RS1
PLOTTED BY										GregorR										JOB NUMBER			SHEET
DESIGNED BY										R. GREGORIO										22X347			7
ENTERED BY										CGAEO										CONTRACT NO.	LOCATION NO.		OF
CHECKED BY										T. HARTMANN											XL6636		48
PROJ. ENGR.										M. BRIGGS													SHEETS
REGIONAL ADM.										C. FRANCIS										REVISION	DATE	BY	




SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX



Washington State
Department of Transportation

SR 14
LIESER ROAD BRIDGE
EMERGENCY BRIDGE REPAIR

ROADWAY SECTIONS

STAGING GENERAL NOTES

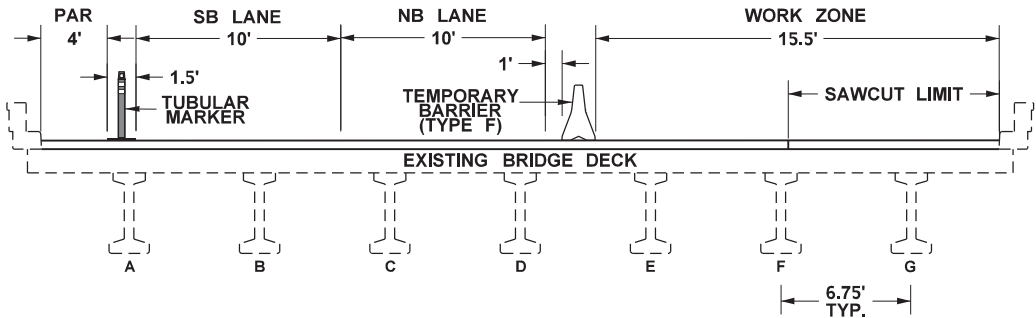
- 1. SEE SPECIAL PROVISIONS FOR CLOSURES AND LANE RESTRICTIONS.
- 2. CONTRACTOR SHALL COORDINATE WITH WSDOT SIGNALS BEFORE EACH AND EVERY STAGE TO ENSURE PROPER CONFIGURATION OF SIGNAL DETECTION (STAGES 0, 1B, 1C, 2, AND 3).
- 3. THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS.
- 4. EMERGENCY SERVICES SHALL BE ACCOMMODATED THROUGH THE WORK ZONE WITH AS SHORT OF A DELAY AS POSSIBLE.

STAGE 0: PRIOR TO BRIDGE WORK

- 1. INSTALL TESC MEASURES. SET CLASS A SIGNS. INSTALL WAVETRONIX FOR TEMPORARY DETECTION. INSTALL TEMPORARY ILLUMINATION.
- 2. SEE SHEET EC1, CT1, SG1 AND IL1.

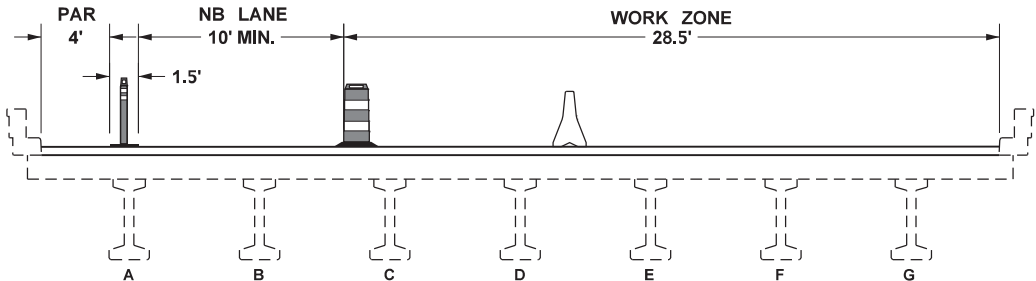
STAGE 1A: REPLACE GIRDER G

- 1. SET TEMPORARY BARRIER.
- 2. SEE SHEET SU2 FOR STAGE 1A PLAN.
- 3. SEE SHEET B3 FOR SAWCUT LIMITS.
- 4. SEE GIRDER REPLACEMENT SEQUENCE ON SHEET B7.



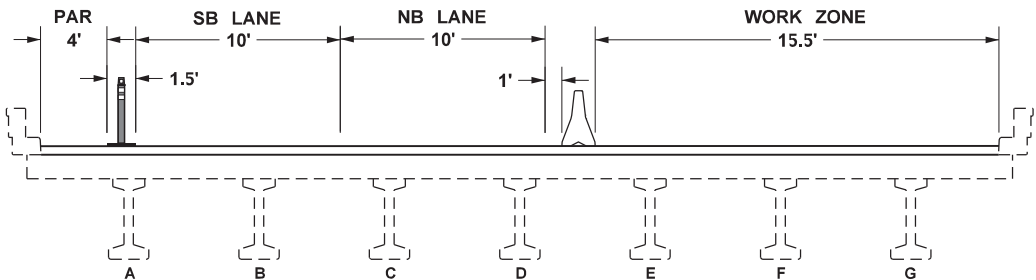
STAGE 1B: CLOSURE POUR/CURE (14 DAYS)

- 1. TEMPORARY BARRIER TO REMAIN IN PLACE FROM STAGE 1A.
- 2. REDUCE TO SINGLE LANE (NB ONLY).
- 3. SEE SHEET SU3 FOR STAGE 1B PLAN.
- 4. SEE SHEET DU1 FOR DETOUR SIGNS.



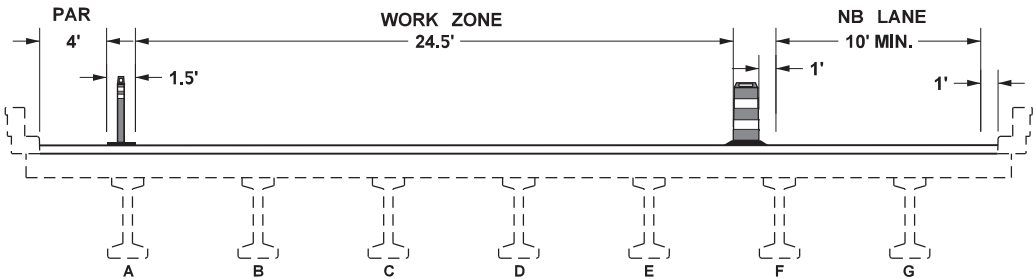
STAGE 1C: CONSTRUCT PERMANENT BRIDGE BARRIER

- 1. RETURN TO STAGE 1A CONFIGURATION. TEMPORARY BARRIER TO REMAIN IN PLACE.
- 2. SEE SHEET SU2 FOR STAGE 1C PLAN.



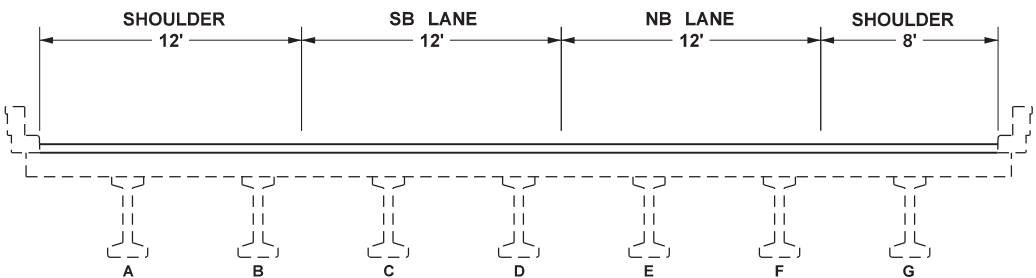
STAGE 2: GIRDER A REPAIR AND CURE (5 DAYS)

- 1. REMOVE TEMPORARY BARRIER FROM STAGE 1.
- 2. REDUCE TO SINGLE LANE (NB ONLY).
- 3. SEE SHEET SU4 FOR STAGE 2 PLAN.
- 4. SEE SHEET B21 FOR GIRDER REPAIR DETAILS.
- 5. SEE SHEET DU1 FOR DETOUR SIGNS.



STAGE 3: COMPLETE B THROUGH F BEAM REPAIRS AND GUARDRAIL REPLACEMENT.

- 1. SEE SHEET B21 FOR GIRDER REPAIR DETAILS. SEE SHEET MK1 FOR GUARDRAIL SCHEDULE. UTILIZE FLAGGER OPERATION ON SHEET TC7 FOR GUARDRAIL REPLACEMENT WORK.
- 2. REMOVE CHANNELING DEVICES AND TEMPORARY PAVEMENT MARKING.
- 3. INSTALL PAINT LINE, PLASTIC CROSSWALK LINE, AND PLASTIC STOP LINE. SEE SHEET MK1 FOR PAVEMENT MARKING PLANS.
- 4. CONFIGURE TRAFFIC SIGNAL DETECTION FOR PERMANENT INSTALL. SEE SHEET SG1 SIGNAL SYSTEM MODIFICATION.



LEGEND:
PAR PEDESTRIAN ACCESS ROUTE

FILE NAME	G:\444302\03 - Design\01422G SR 14 Lieser Rd Br - Emergency Br Repair\20-CADD-Plans\20-2 PS&E Sheets\01422G PS_SU STAGING PLANS.dgn			
TIME	4:39:22 PM			
DATE	6/15/2023			
PLOTTED BY	GregorR			
DESIGNED BY	R. GREGORIO			
ENTERED BY	CGAEO			
CHECKED BY	T. HARTMANN			
PROJ. ENGR.	M. BRIGGS			
REGIONAL ADM.	C. FRANCIS			
REVISION	DATE	BY		

REGION NO. 10 STATE WASH

JOB NUMBER 22X347

CONTRACT NO.

FED.AID PROJ.NO. ER-STBG-2C05001

LOCATION NO. XL6636



SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX



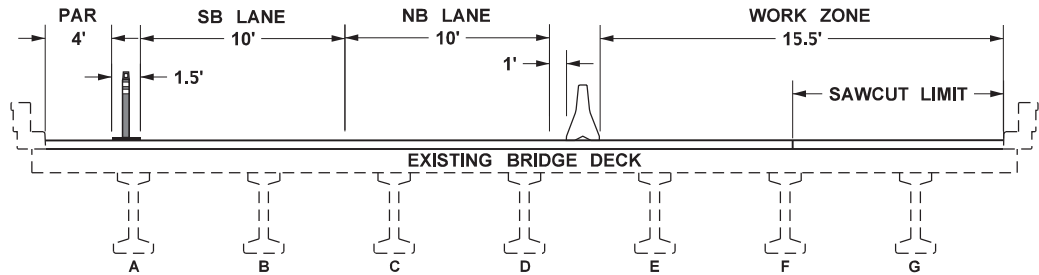
Washington State Department of Transportation

SR 14
LIESER ROAD BRIDGE
EMERGENCY BRIDGE REPAIR

STAGING PLANS

Plot 1
PLAN REF NO
SU1

SHEET
8
OF
48
SHEETS



SECTION A-A

CONSTRUCTION NOTES:

- 1
- TEMPORARY PAVEMENT MARKING - DOUBLE CENTERLINE (YELLOW)
- 2
- TEMPORARY PAVEMENT MARKING - DOTTED EXTENSION LINE (YELLOW)
- 3
- TEMPORARY PAVEMENT MARKING - STOP LINE (24")

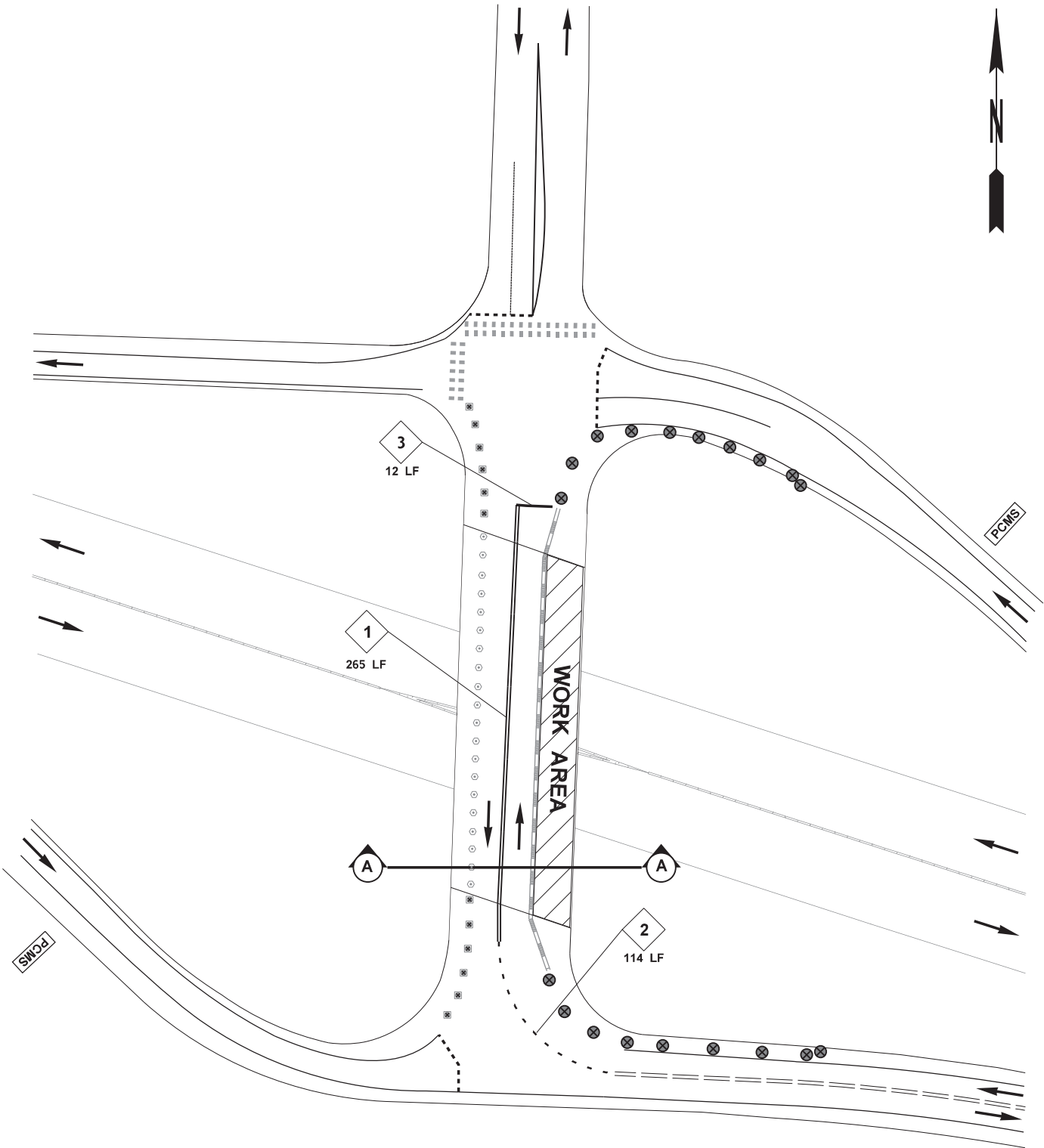
NOTES:

1. TEMPORARY SIGNAL DETECTION NEEDS TO BE MODIFIED BEFORE OPENING TO TRAFFIC.
2. EXTEND CHANNELING DEVICES ONTO RAMP AND TAPER ACROSS SHOULDER.
3. CHANNELING DEVICE SPACING RECOMMENDED AT 20' C/C ON TANGENTS AND 10' C/C ON RADIUS.

PCMS	
1	2
LIESER BRIDGE WORK	NARROW ROADWAY AHEAD
2 SEC	2 SEC

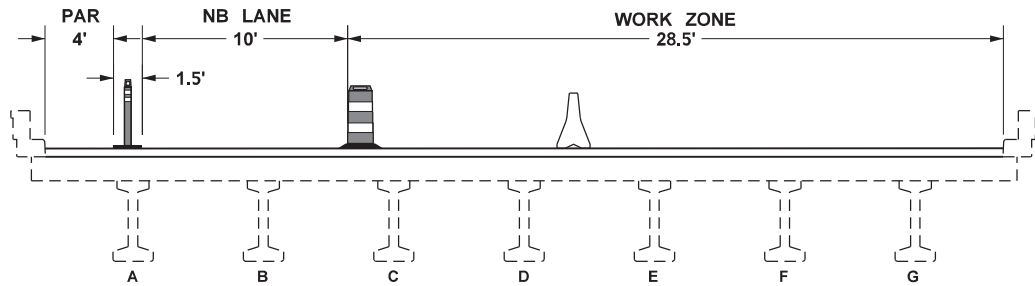
LEGEND:

- TEMPORARY SIGN LOCATION
- TEMPORARY SIGN LOCATION (5' MIN HEIGHT)
- TRAFFIC SAFETY DRUM
- TEMPORARY BARRIER
- TUBULAR MARKER
- PORTABLE CHANGEABLE MESSAGE SIGN
- DIRECTION OF TRAVEL



LIESER ROAD BRIDGE - STAGE 1A AND 1C
NOT TO SCALE

FILE NAME				G:\444302\03 - Design\01422G SR 14 Lieser Rd Br - Emergency Br Repair\20-CADD-Plans\20-2 PS&E Sheets\01422G PS_SU STAGING PLANS.dgn							
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DATE		6/15/2023				10		WASH			
PLOTTED BY		GregorR									
DESIGNED BY		R. GREGORIO						JOB NUMBER			
ENTERED BY		CGAEO						22X347			
CHECKED BY		T. HARTMANN						CONTRACT NO.		LOCATION NO.	
PROJ. ENGR.		M. BRIGGS								XL6636	
REGIONAL ADM.		C. FRANCIS		REVISION		DATE		BY			



SECTION B-B

CONSTRUCTION NOTES:

- 1
- TEMPORARY PAVEMENT MARKING - DOUBLE CENTERLINE (YELLOW)
- 2
- TEMPORARY PAVEMENT MARKING - DOTTED EXTENSION LINE (YELLOW)
- 3
- TEMPORARY PAVEMENT MARKING - STOP LINE (24")

NOTES:

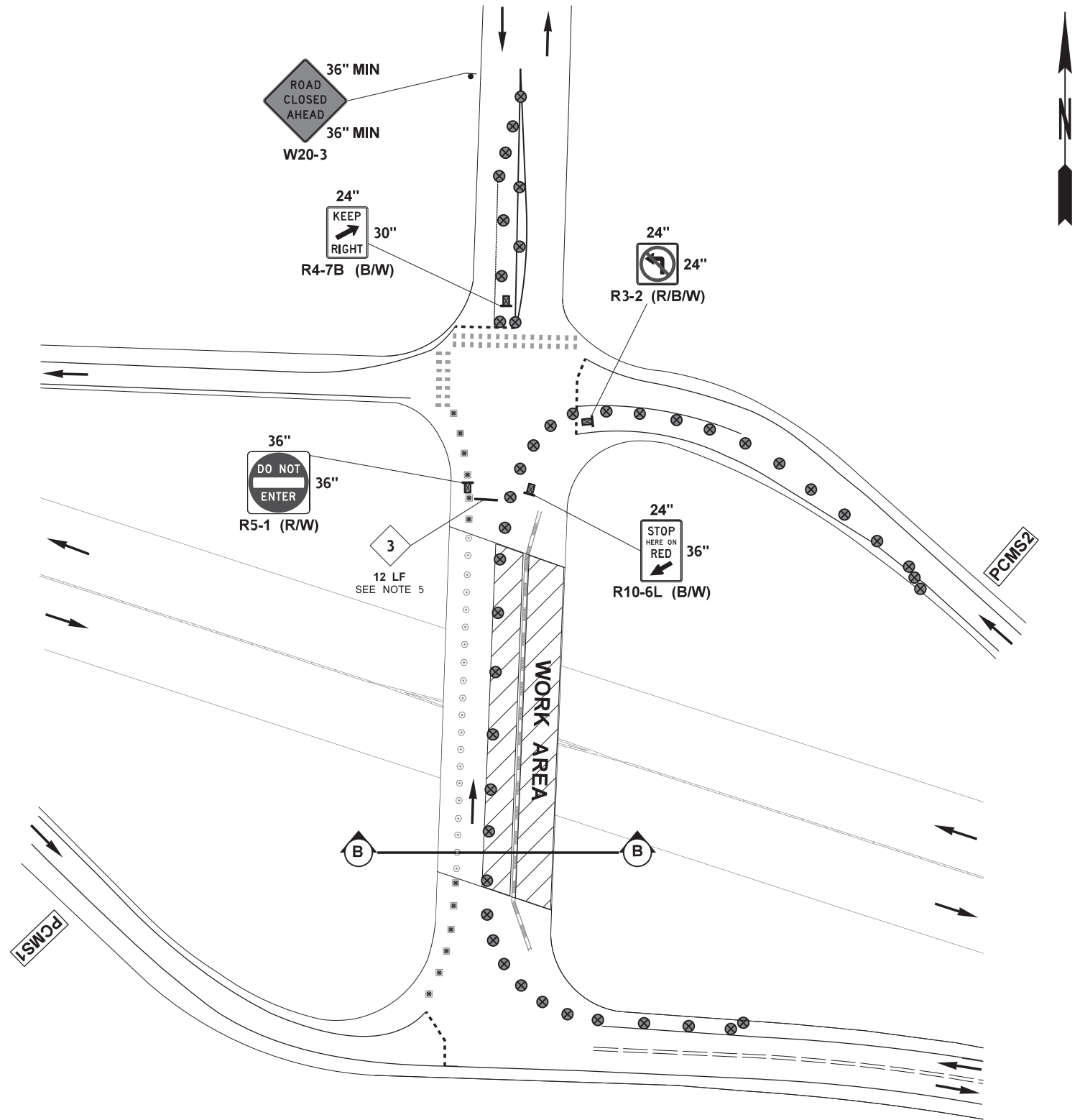
1. TEMPORARY SIGNAL DETECTION NEEDS TO BE MODIFIED BEFORE OPENING TO TRAFFIC.
2. EXTEND CHANNELING DEVICE ONTO RAMP AND TAPER ACROSS SHOULDER.
3. CHANNELING DEVICE SPACING RECOMMENDED AT 20' C/C ON TANGENTS AND 10' C/C ON RADIUS.
4. DO NOT COVER R3-7R SIGN LOCATED ON SB LIESER RD. SEE SHEET SN1 FOR SIGN COVERING SCHEDULE.
5. INSTALL STOP LINE AT MINIMUM 50' FROM SIGNAL HEAD.
6. SEE SHEET SN1 FOR SIGN COVERING SCHEDULE.
7. DETOUR SIGNS SHALL BE IN PLACE BEFORE OPENING TO TRAFFIC. SEE SHEET DU1 FOR DETOUR SIGNS.

LEGEND:

- TEMPORARY SIGN LOCATION
- TEMPORARY SIGN LOCATION (5' MIN HEIGHT)
- TRAFFIC SAFETY DRUM
- TEMPORARY BARRIER
- TUBULAR MARKER
- PORTABLE CHANGEABLE MESSAGE SIGN
- DIRECTION OF TRAVEL

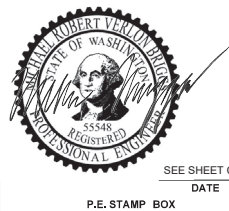
PCMS 1	
1	2
LIESER BRIDGE WORK	NARROW ROADWAY AHEAD
2 SEC	2 SEC

PCMS 2	
1	2
LIESER AT SR 14 CLOSED	FOLLOW DETOUR ROUTE
2 SEC	2 SEC



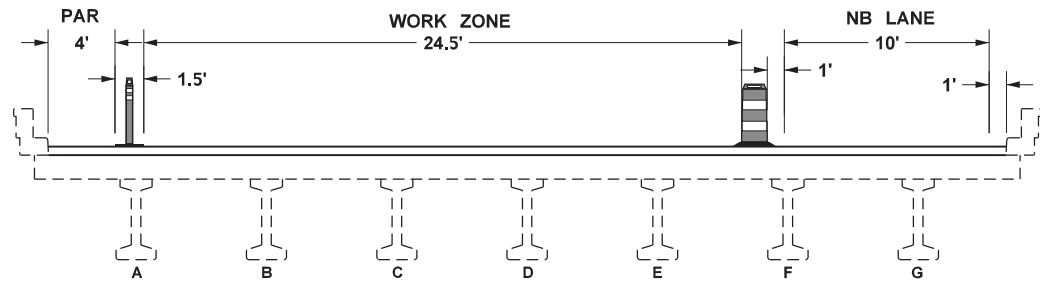
LIESER ROAD BRIDGE - STAGE 1B (ONE-WAY NB ONLY)
NOT TO SCALE

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DATE	6/15/2023					10	WASH			
PLOTTED BY	GregorR					JOB NUMBER		LOCATION NO. XL6636		
DESIGNED BY	R. GREGORIO					22X347				
ENTERED BY	CGAEO					CONTRACT NO.		SEE SHEET CT1 DATE		
CHECKED BY	T. HARTMANN									
PROJ. ENGR.	M. BRIGGS									
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY				P.E. STAMP BOX	DATE	P.E. STAMP BOX



SR 14
LIESER ROAD BRIDGE
EMERGENCY BRIDGE REPAIR
STAGING PLANS

Plot 3
PLAN REF NO
SU3
SHEET
10
OF
48
SHEETS



SECTION C-C

CONSTRUCTION NOTES:

- 1
- TEMPORARY PAVEMENT MARKING - DOUBLE CENTERLINE (YELLOW)
- 2
- TEMPORARY PAVEMENT MARKING - DOTTED EXTENSION LINE (YELLOW)
- 3
- TEMPORARY PAVEMENT MARKING - STOP LINE (24")

NOTES:

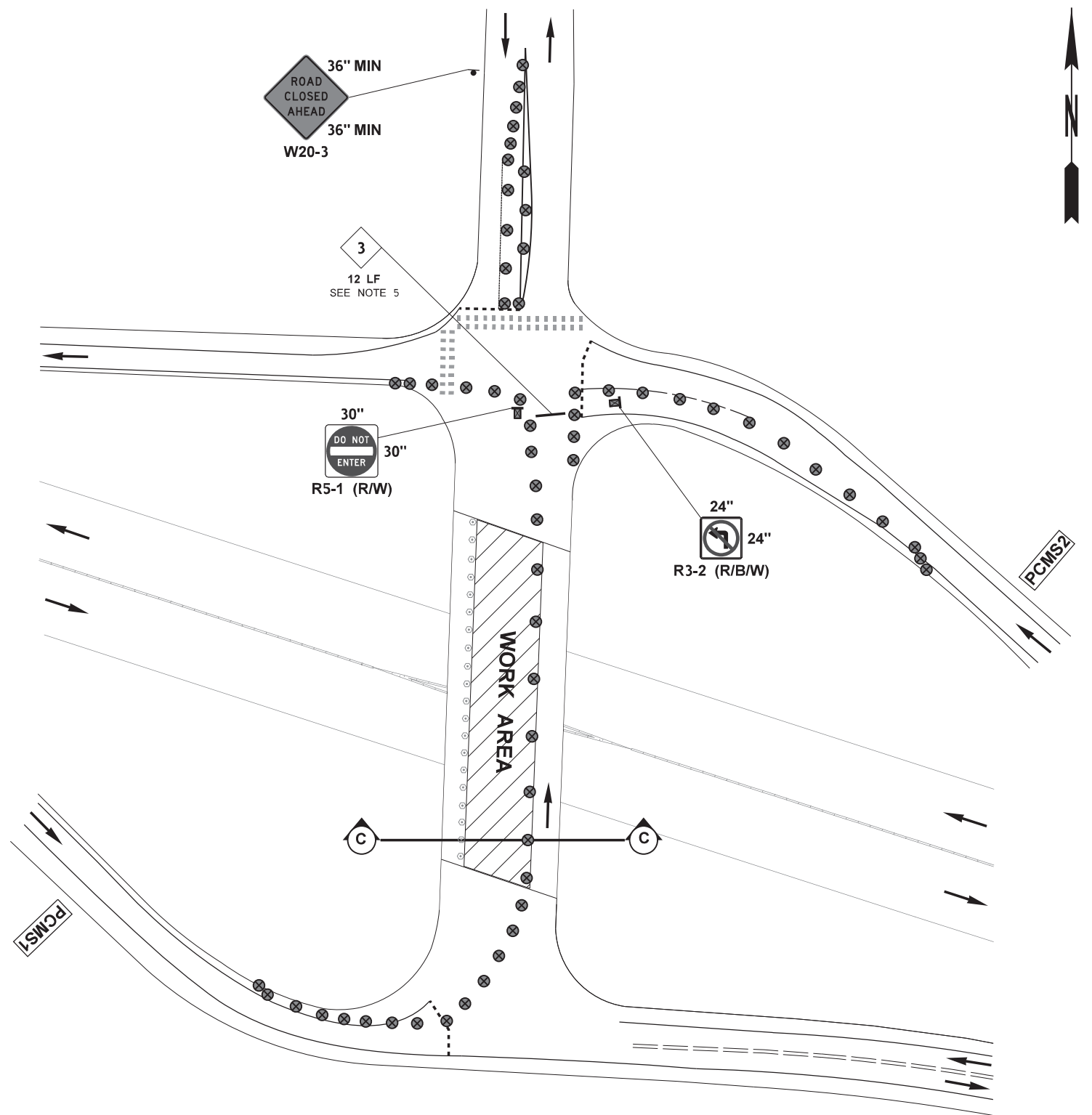
1. TEMPORARY SIGNAL DETECTION NEEDS TO BE MODIFIED BEFORE OPENING TO TRAFFIC.
2. EXTEND CHANNELING DEVICE ONTO RAMP AND TAPER ACROSS SHOULDER.
3. CHANNELING DEVICE SPACING RECOMMENDED AT 20' C/C ON TANGENTS AND 10' C/C ON RADIUS.
4. DO NOT COVER R3-7R SIGN LOCATED ON SB LIESER RD. SEE SHEET SN1 FOR SIGN COVERING SCHEDULE.
5. INSTALL STOP LINE AT MINIMUM 50' FROM SIGNAL HEAD.
6. SEE SHEET SN1 FOR SIGN COVERING SCHEDULE.
7. DETOUR SIGNS SHALL BE IN PLACE BEFORE OPENING TO TRAFFIC. SEE SHEET DU1 FOR DETOUR SIGNS.

LEGEND:

- TEMPORARY SIGN LOCATION
- TEMPORARY SIGN LOCATION (5' MIN HEIGHT)
- TRAFFIC SAFETY DRUM
- TEMPORARY BARRIER
- TUBULAR MARKER
- PORTABLE CHANGEABLE MESSAGE SIGN
- DIRECTION OF TRAVEL

PCMS 1	
1	2
LIESER BRIDGE WORK	NARROW ROADWAY AHEAD
2 SEC	2 SEC

PCMS 2	
1	2
LIESER AT SR 14 CLOSED	FOLLOW DETOUR ROUTE
2 SEC	2 SEC



LIESER ROAD - STAGE 2 (ONE-WAY NB ONLY)

NOT TO SCALE

FILE NAME				G:\444302\03 - Design\01422G SR 14 Lieser Rd Br - Emergency Br Repair\20-CADD-Plans\20-2 PS&E Sheets\01422G_PS_SU_STAGING_PLANS.dgn			
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DATE				6/15/2023			
PLOTTED BY				GregorR			
DESIGNED BY				R. GREGORIO			
ENTERED BY				CGAEO			
CHECKED BY				T. HARTMANN			
PROJ. ENGR.				M. BRIGGS			
REGIONAL ADM.				C. FRANCIS			
REVISION		DATE		BY			

REGION NO.
10

STATE
WASH

JOB NUMBER
22X347

CONTRACT NO.

FED.AID PROJ.NO.
ER-STBG-2C05001

LOCATION NO.

XL6636



SEE SHEET CT1

P.E. STAMP BOX

P.E. STAMP BOX



SR 14
LIESER ROAD BRIDGE
EMERGENCY BRIDGE REPAIR

STAGING PLANS

Plot 4
PLAN REF NO
SU4

SHEET
11
OF
48
SHEETS

CONSTRUCTION NOTES:

- 1

REMOVING GUARDRAIL
- 2

REMOVING PAINT LINE - DOUBLE CENTERLINE (Y)
- 3

REMOVING PAINT LINE - EDGE LINE (W)
- 4

REMOVING PAINT LINE - DOTTED EXTENSION LINE (Y)
- 5

REMOVING PAINT LINE - DOTTED EXTENSION LINE (W)
- 6

REMOVING PAINT LINE - STOP LINE
- 7

REMOVING RAISED PAVEMENT MARKER
- 8

INLET PROTECTION
- 9

HIGH VISIBILITY FENCE

LEGEND:

- 8

CONSTRUCTION NOTES
- #

QUANTITY TAB REFERENCE
- |-|-|-|

GUARDRAIL
- ⊞

STORM DRAIN INLET
- ⊞

INLET PROTECTION
- HVF -

HIGH VISIBILITY FENCE
- ==

DOUBLE CENTERLINE REMOVE
- EDGE LINE REMOVE
- DOTTED EXTENSION LINE REMOVE
- ▣

RAISED PAVEMENT MARKER
- SHOULDER PAVED EDGE
- |||||

CROSSWALK EXISTING
- STOP LINE EXISTING
- ==

DOUBLE CENTERLINE EXISTING
- EDGE LINE EXISTING
- LANE LINE EXISTING
- ====

BARRIER EXISTING
- STOP LINE EXISTING
- X-X-

LUMINAIRE
- ⊗-X-X-

TRAFFIC SIGNAL MOUNTED LUMINAIRE
- (P)-

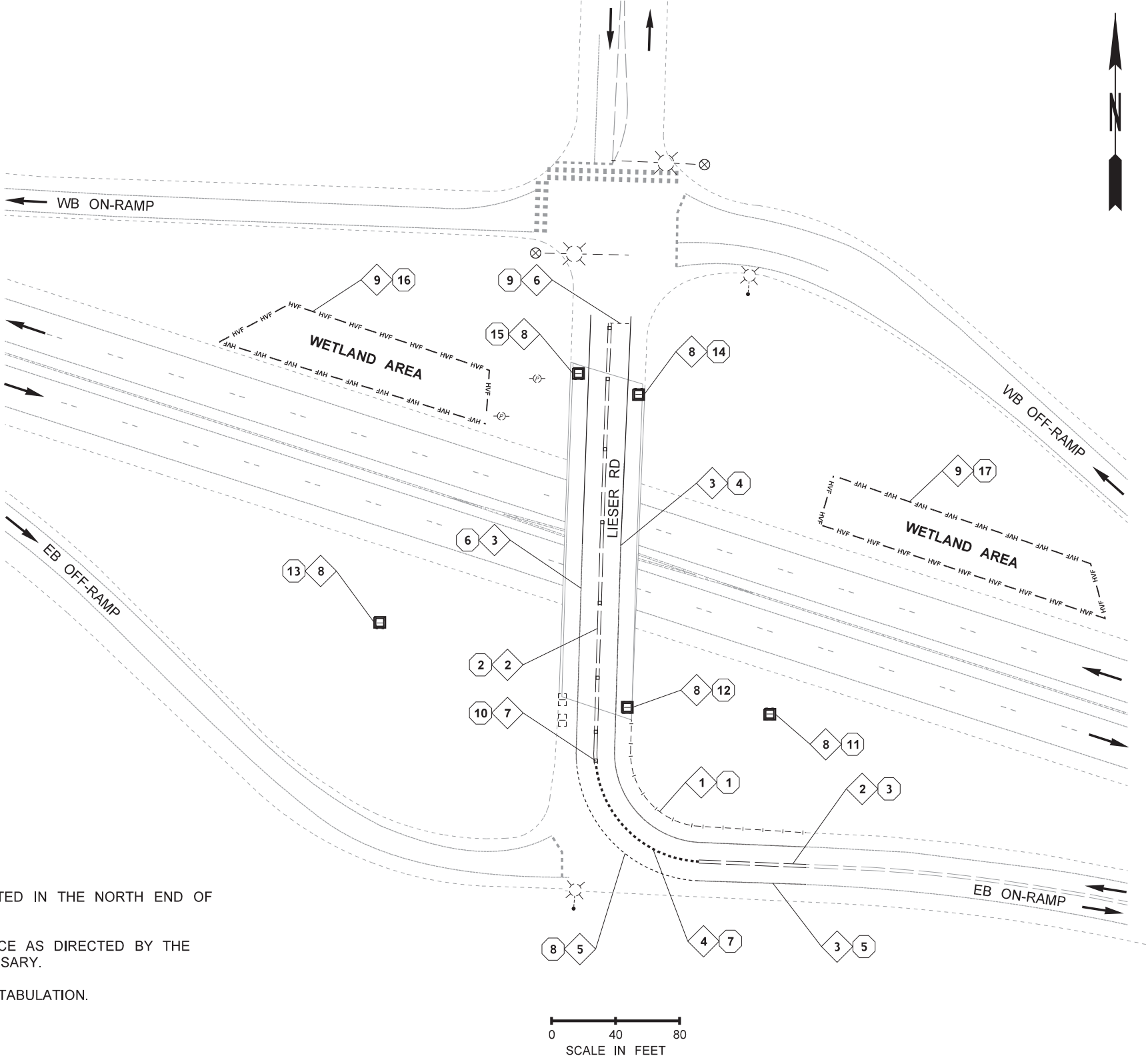
POWER POLE
- Y

YELLOW
- W

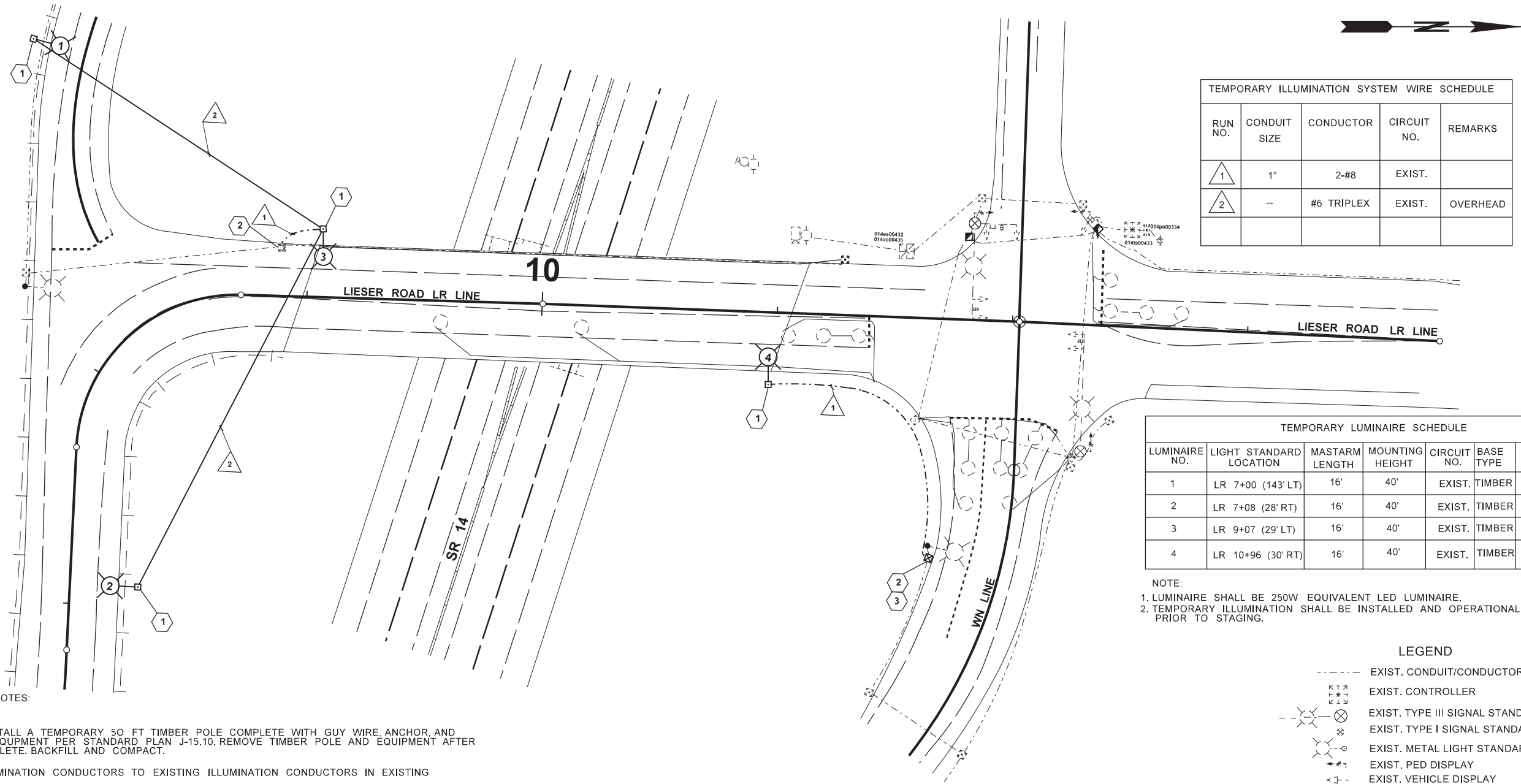
WHITE

NOTES:

1. CONSTRUCTION STAGING RESTRICTED IN THE NORTH END OF BRIDGE (NW AND NE QUADRANTS).
2. STABILIZE CONSTRUCTION ENTRANCE AS DIRECTED BY THE ENGINEER IN THE FIELD, AS NECESSARY.
3. SEE SHEET QT1 FOR QUANTITIES TABULATION.



FILE NAME				G:\444302\03 - Design\01422G SR 14 Lieser Rd Br - Emergency Br Repair\20-CADD-Plans\20-2 PS&E Sheets\01422G PS SPEC SITE PREP AND									
TIME		5:00:20 PM						REGION NO.		STATE		FED.AID PROJ.NO. ER-STBG-2C05001	
DATE		6/15/2023						10		WASH			
PLOTTED BY		GregorR											
DESIGNED BY		R. GREGORIO											
ENTERED BY		CGAEO						JOB NUMBER				LOCATION NO. XL6636	
CHECKED BY		T. HARTMANN						22X347					
PROJ. ENGR.		M. BRIGGS						CONTRACT NO.					
REGIONAL ADM.		C. FRANCIS											
				REVISION				DATE		BY			



CONSTRUCTION NOTES:

- 1
- FURNISH AND INSTALL A TEMPORARY 50 FT TIMBER POLE COMPLETE WITH GUY WIRE, ANCHOR, AND ALL NECESSARY EQUIPMENT PER STANDARD PLAN J-15.10. REMOVE TIMBER POLE AND EQUIPMENT AFTER PROJECT IS COMPLETE. BACKFILL AND COMPACT.
- 2
- SPLICE NEW ILLUMINATION CONDUCTORS TO EXISTING ILLUMINATION CONDUCTORS IN EXISTING JUNCTION BOX.
- 3
- REMOVE EXISTING JUNCTION BOX. FURNISH AND INSTALL NEW TYPE 1 JUNCTION BOX COMPLETE WITH SECURITY COLLAR PER STANDARD PLAN J-40.10.

GENERAL NOTES:

LIGHTING LEVELS SHALL BE MAINTAINED DURING HOURS OF DARKNESS AND/OR INCLEMENT WEATHER THROUGHOUT THE PROJECT. HOURS OF DARKNESS ARE DEFINED AS ½ HOUR PRIOR TO SUNSET AND ½ HOUR AFTER SUNRISE.

ALL ITEMS ON THIS SHEET, INCLUDING THE REMOVAL OF THE TEMPORARY ILLUMINATION SHALL BE INCLUDED IN THE BID ITEM FOR TEMPORARY ILLUMINATION SYSTEM.

TEMPORARY ILLUMINATION SHALL BE ACTIVE AND MAINTAINED THROUGH STAGE 2B.

ELECTRICAL HOT WORK IS NOT PERMITTED.

TEMPORARY ILLUMINATION SYSTEM WIRE SCHEDULE				
RUN NO.	CONDUIT SIZE	CONDUCTOR	CIRCUIT NO.	REMARKS
1	1"	2-#8	EXIST.	
2	--	#6 TRIPLEX	EXIST.	OVERHEAD

TEMPORARY LUMINAIRE SCHEDULE						
LUMINAIRE NO.	LIGHT STANDARD LOCATION	MASTARM LENGTH	MOUNTING HEIGHT	CIRCUIT NO.	BASE TYPE	NOTE
1	LR 7+00 (143' LT)	16'	40'	EXIST.	TIMBER	1,2
2	LR 7+08 (28' RT)	16'	40'	EXIST.	TIMBER	1,2
3	LR 9+07 (29' LT)	16'	40'	EXIST.	TIMBER	1,2
4	LR 10+96 (30' RT)	16'	40'	EXIST.	TIMBER	1,2

NOTE:

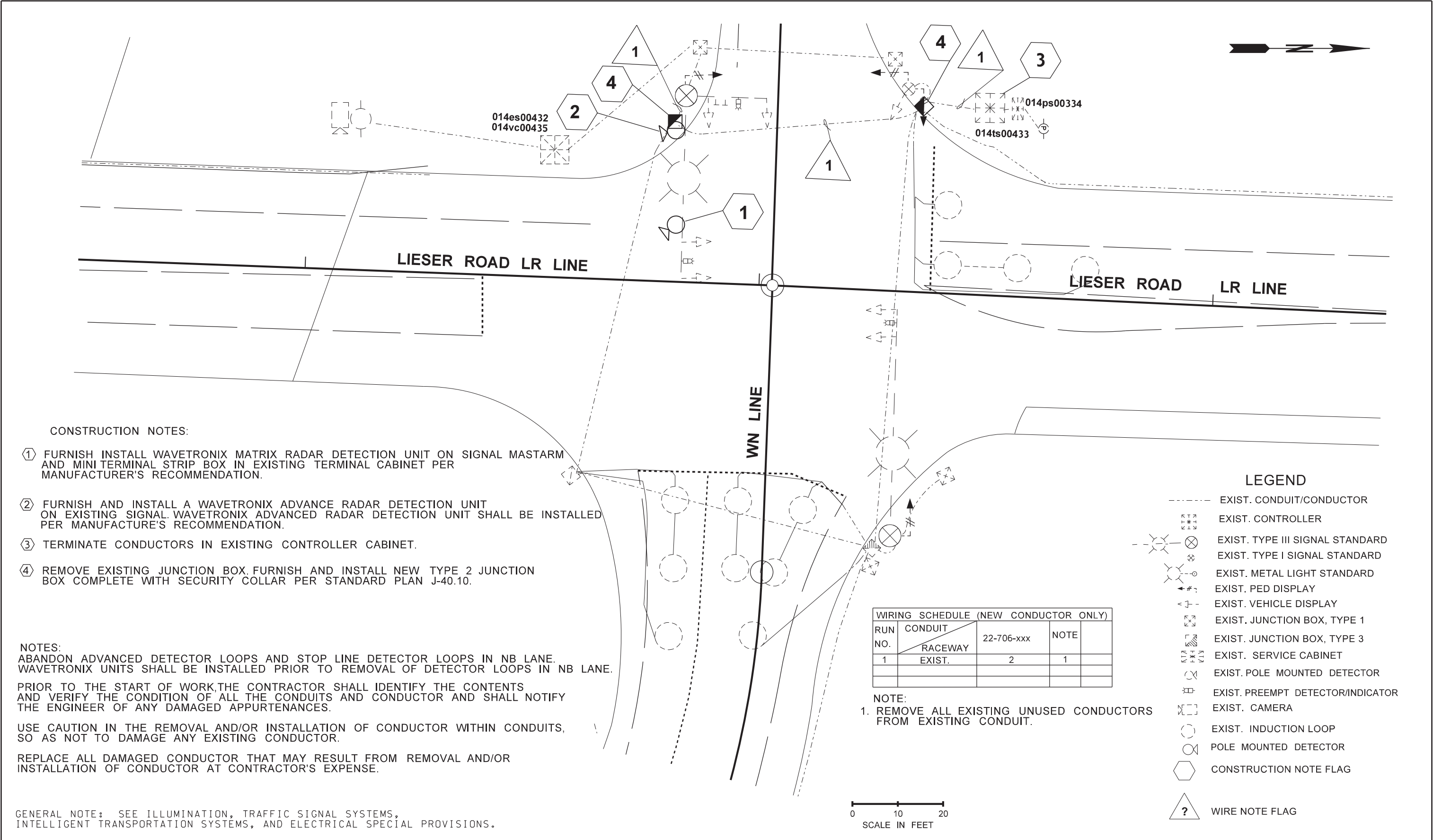
1. LUMINAIRE SHALL BE 250W EQUIVALENT LED LUMINAIRE.
2. TEMPORARY ILLUMINATION SHALL BE INSTALLED AND OPERATIONAL PRIOR TO STAGING.



LEGEND

- EXIST. CONDUIT/CONDUCTOR
- EXIST. CONTROLLER
- EXIST. TYPE III SIGNAL STANDARD
- EXIST. TYPE I SIGNAL STANDARD
- EXIST. METAL LIGHT STANDARD
- EXIST. PED DISPLAY
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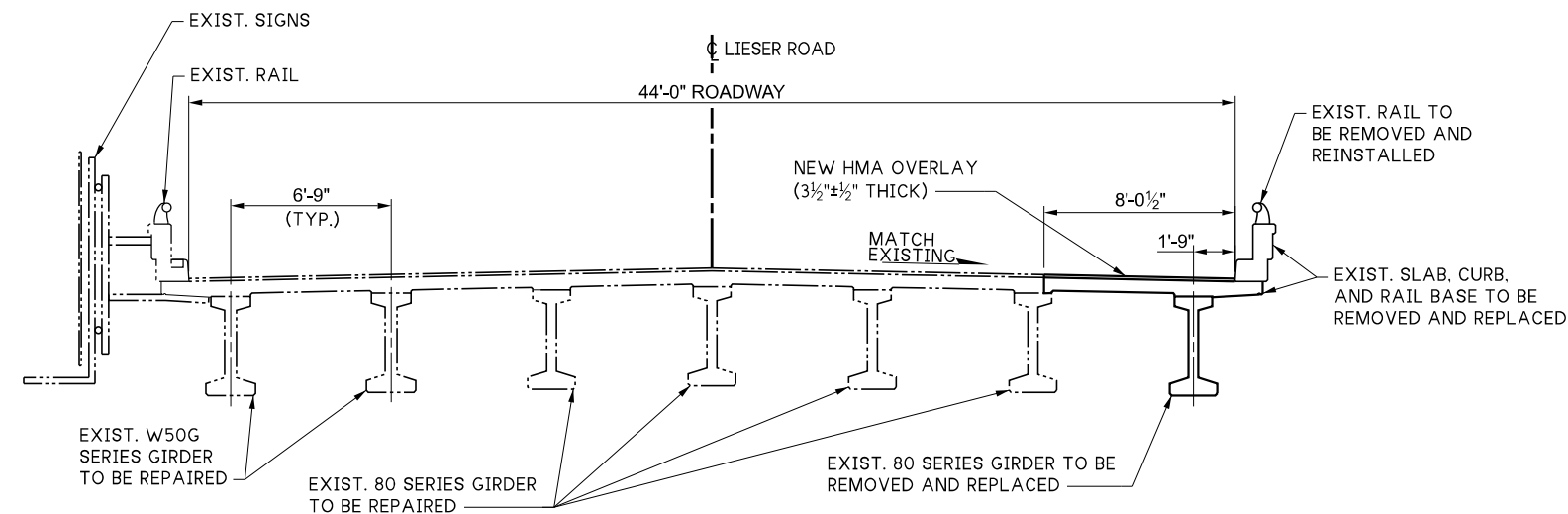
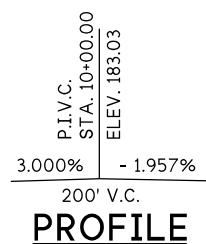
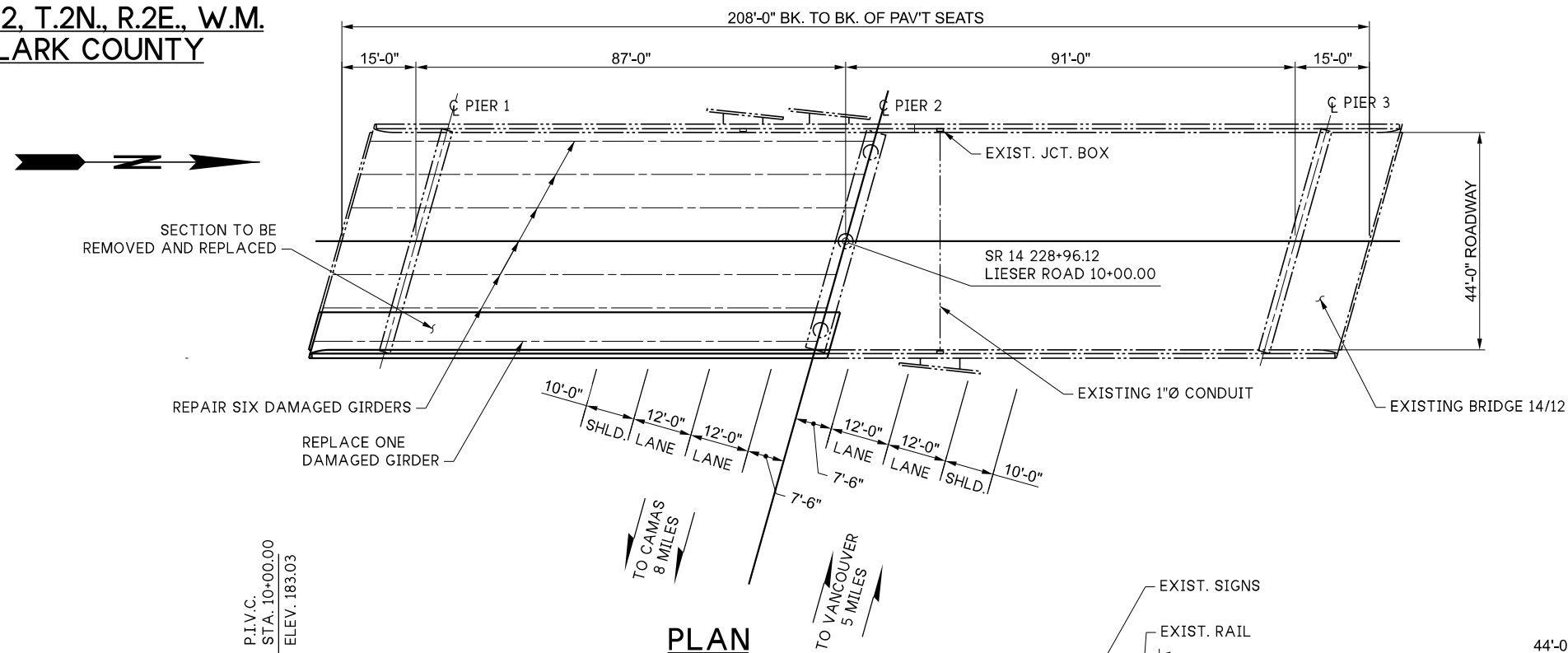
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SECTION NEAR PIER 2

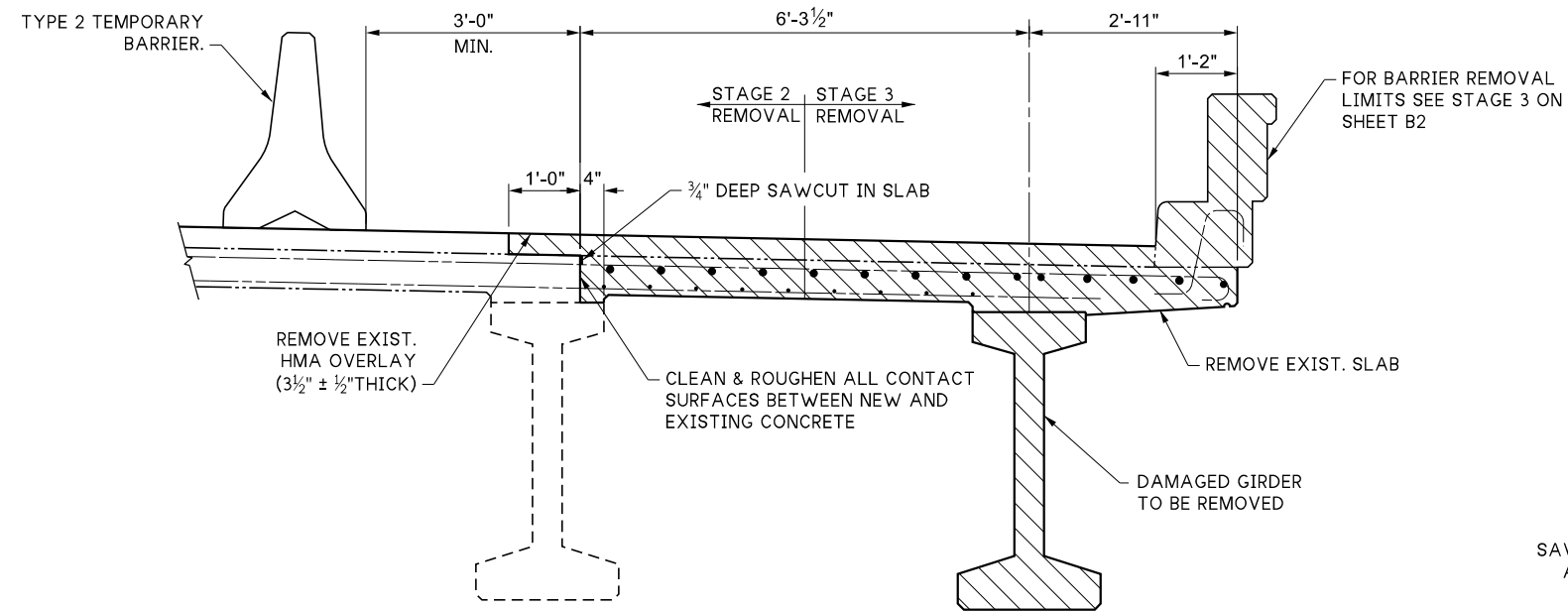
DISTANCES ARE NORMAL TO Ç LIESER RD.

LEGEND:

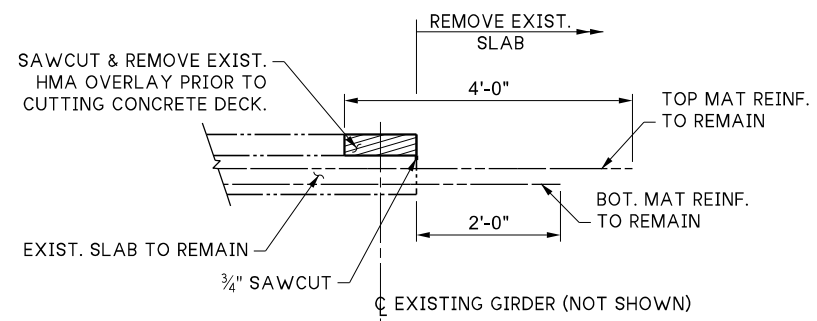
-
- Diagram illustrating the components of a section symbol:
- ARROW DENOTES DIRECTION AT WHICH SECTION, ELEVATION, OR VIEW WAS TAKEN
 - IDENTIFIES SECTION, VIEW, OR ELEVATION
 - IDENTIFIES SHEET TAKEN FROM OR SHOWN ON
 - IDENTIFIES DETAIL NUMBER
 - SHOWN ON THE SAME SHEET
 - KEY NOTE: IDENTIFIES NOTE REFERENCE ON THE SAME SHEET.

P.C. GIRDER REPLACEMENT
LOADING: HS-20
OR
TWO 24K AXLES @ 4' CTRS.
CONTINUOUS FOR LIVE LOAD

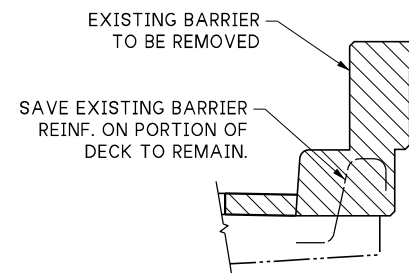
BRIDGE SHEET SR	FILE PATH / NAME pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/014/BR 14-12/2022_Emergency Repair/XL6636/DGN/_Sheets/01 Layout				REGION NO. 10	WASH			SEE SHEET CT1 DATE _____	P.E. STAMP BOX	DATE _____	P.E. STAMP BOX	SR 14 LIESER ROAD BRIDGE EMERGENCY BRIDGE REPAIR	LAYOUT	PLAN REF NO. B1
	BRIDGE DES. ENG. LELAND, A				JOB NUMBER										
	BRIDGE PROJ. ENG. ROSA, M				CONTRACT NO.										
	SUPERVISOR ZELDENRUST, R														
	DESIGNED BY BONDY, T 09/22														
	CHECKED BY DORNSIFE, R 07/23														
	ENTERED BY TUBBS, N 09/22														
PRELIM. PLAN BY															
ARCH. / SPEC.	REVISION			DATE	BY										
PLOT DATE: 7/25/2023 PLOT TIME: 3:42:03 PM PLOTTED BY: \$\$USERNAME\$\$															



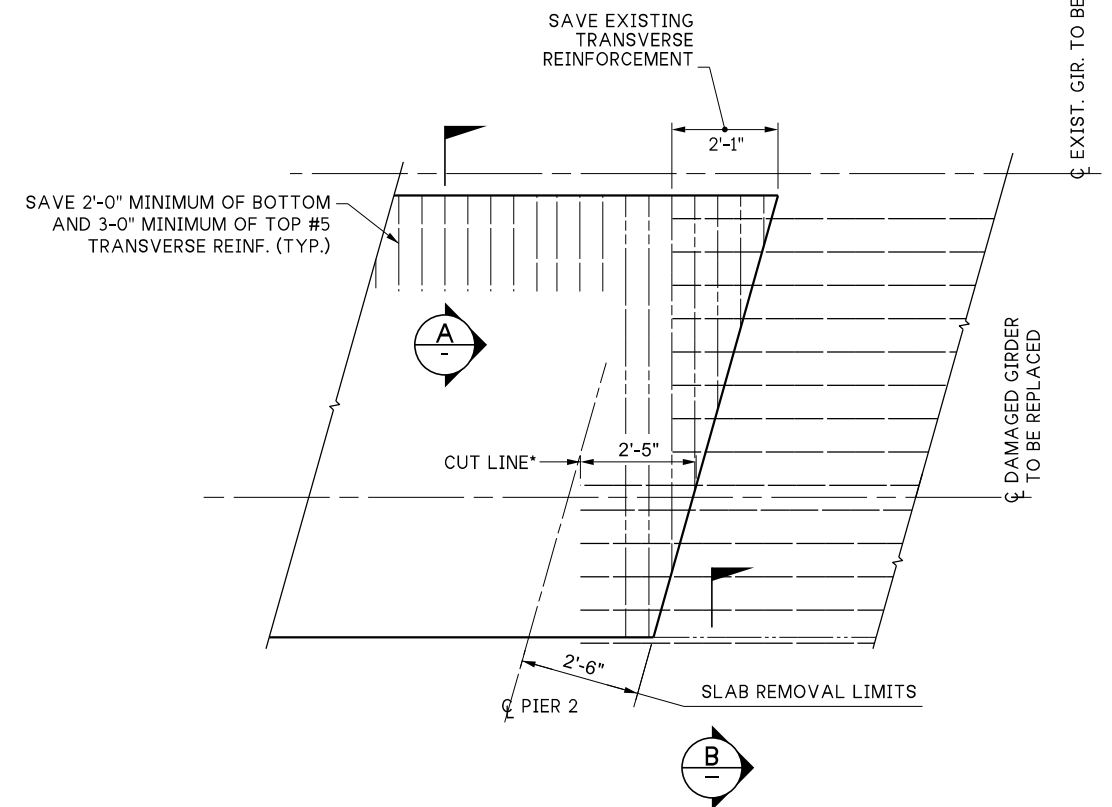
SLAB, GIRDER & BARRIER REMOVAL
SHOWN NEAR PIER 2



SECTION A
- & B2



SECTION B
- & B2



**SLAB & REINFORCEMENT
REMOVAL NEAR PIER 2**

*CUT TOP #9 & #10 ALONG LINE NORMAL TO C BRIDGE (TYP.)
SAVE 2'-0" MIN. OF BOT. #5 LONGITUDINAL REINF. (TYP.)

SR
BRIDGE SHEET
FILE NO.
OF

FILE PATH / NAME	pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/014/BR 14-12/2022_Emergency Repair/03 Removal Details 1			
BRIDGE DES. ENG.	LELAND, A			
BRIDGE PROJ. ENG.	ROSA, M			
SUPERVISOR	ZELDENRUST, R			
DESIGNED BY	BONDY, T	09/22		
CHECKED BY	DORNSIFE, R	07/23		
ENTERED BY	TUBBS, N	09/22		
PRELIM. PLAN BY				
ARCH. / SPEC.				
PLOT DATE: 7/25/2023	PLOT TIME: 3:42:11 PM	PLOTTED BY: \$\$\$USERNAME\$\$\$		

10	WASH
JOB NUMBER	
CONTRACT NO.	



SEE SHEET CT1
DATE
P.E. STAMP BOX

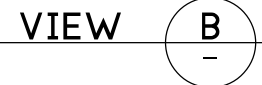


SEE SHEET CT1
DATE
P.E. STAMP BOX

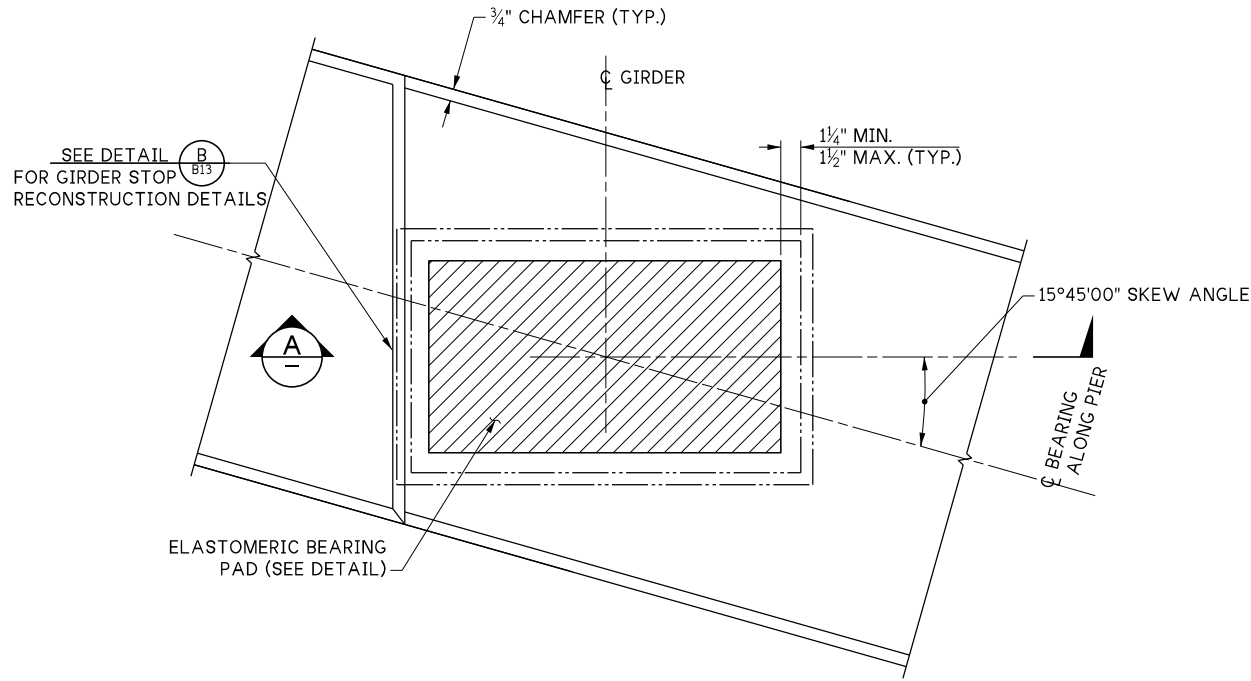
SR 14
LIESER ROAD BRIDGE
EMERGENCY BRIDGE REPAIR

REMOVAL DETAILS
1 OF 4

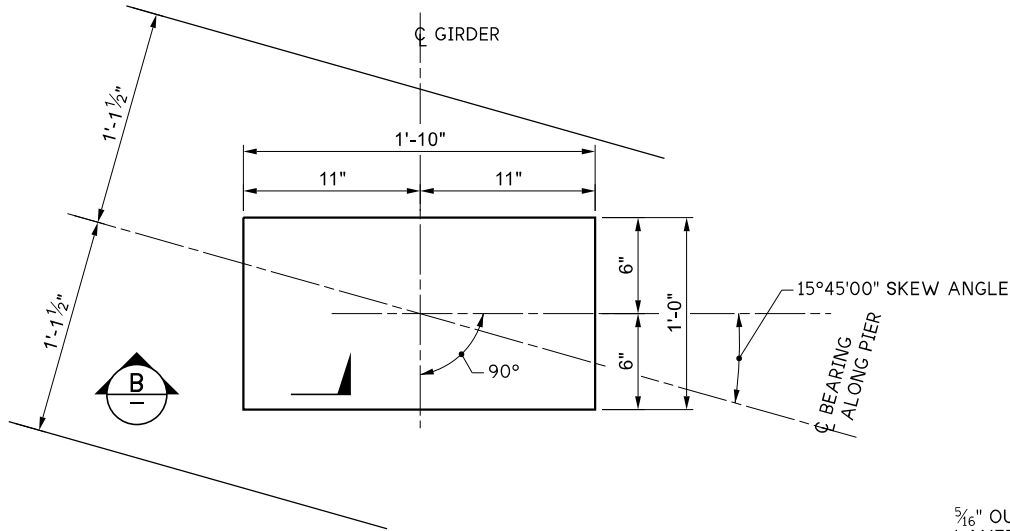
PLAN REF NO
B3
SHEET
18
OF
48
SHEETS



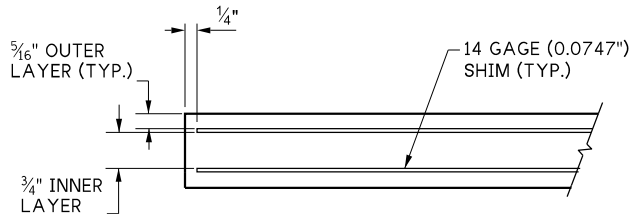
SR _____ OF _____ FILE NO. _____



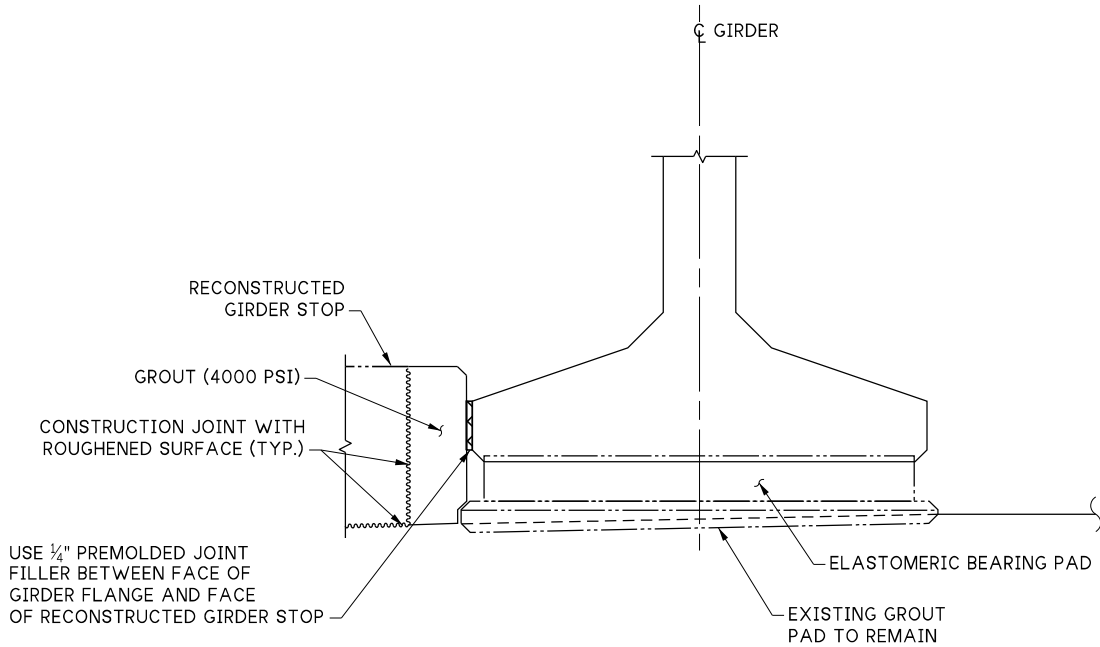
GROUT PAD DETAIL
GIRDER NOT SHOWN FOR CLARITY



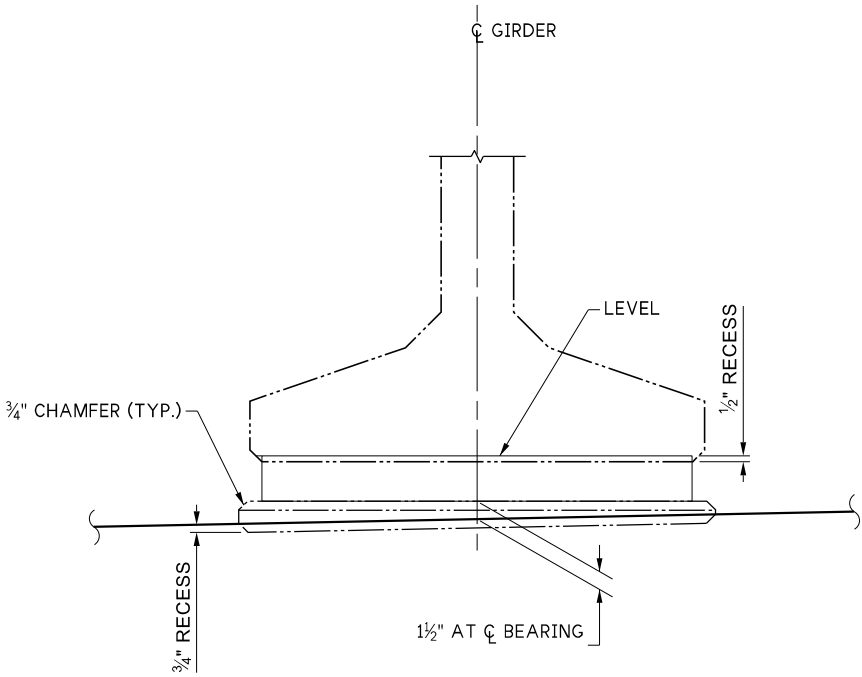
ELASTOMERIC BEARING PAD
LAMINATED ELASTOMERIC BEARING PAD (2 SHIMS)



SECTION B



SECTION A

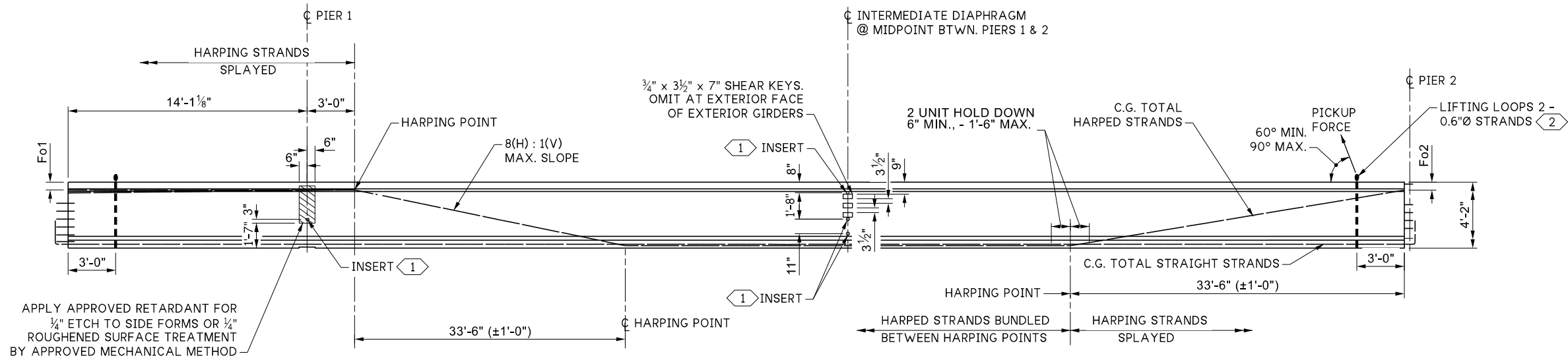


GROUT PAD ELEVATION

BEARING DESIGN TABLE	
AASHTO METHOD B DESIGN	
SERVICE - 1 LIMIT STATE	
DEAD LOAD (DL) REACTION	82 KIPS
LIVE LOAD REACTION (W/O IMPACT)	41 KIPS
UNLOADED HEIGHT	1.52 IN
LOADED HEIGHT (DL)	1.51 IN
SHEAR MODULUS	165 PSI

NOTES:

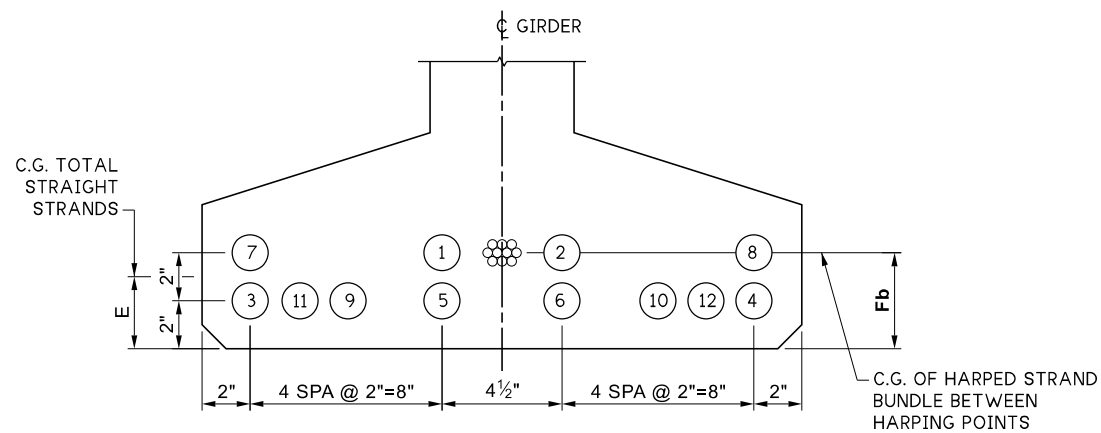
- GIRDER STOP SHALL BE RECONSTRUCTED AFTER GIRDER PLACEMENT.
- UNDAMAGED EXISTING BEARING PADS MAY BE REUSED.



END 1

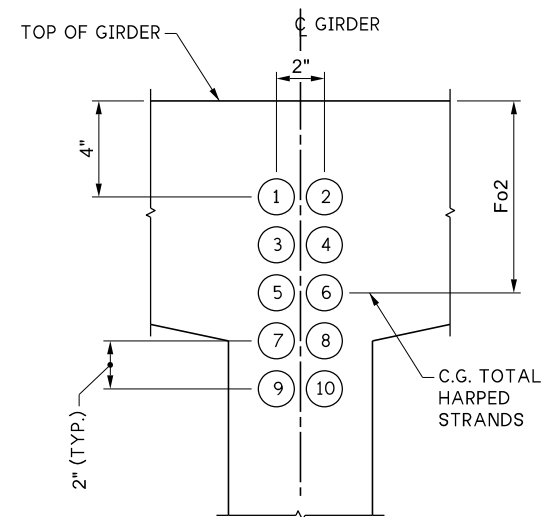
GIRDER ELEVATION

END 2



STRAND PATTERN
AT C SPAN

STRAND LOCATION SEQUENCE SHALL
BE AS SHOWN (1), (2) ETC.



STRAND PATTERN
AT GIRDER END

HARPED STRAND LOCATION SEQUENCE
SHALL BE AS SHOWN (1), (2) ETC.

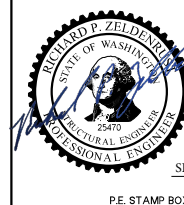
KEY NOTES:

- 1 PLACE INSERTS ON THE INTERIOR FACE OF GIRDER. PLACE INSERTS PARALLEL TO SKEW. INSERTS SHALL BE 1" BURKE HI-TENSILE, LANCASTER MALLEABLE, DAYTON-SUPERIOR F-62 FLARED THIN SLAB (1" x 4 5/8") FERRULE OR APPROVED EQUAL (TYP.).
- 2 THE NUMBER OF LIFTING STRANDS SHALL BE BASED ON 14 KIPS PER EACH 0.6"Ø STRAND.

BRIDGE SHEET
OF
FILE NO.

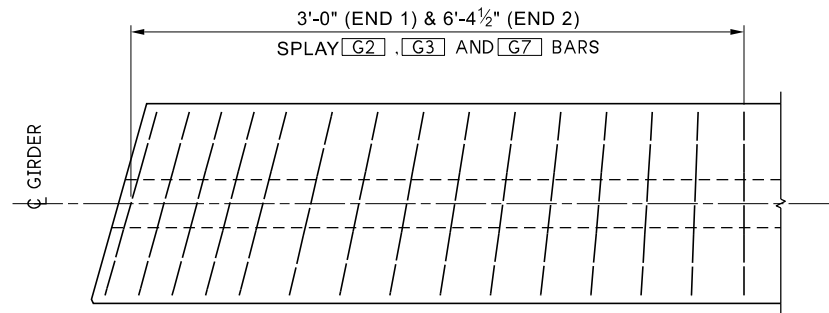
FILE PATH / NAME	pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/014/BR 14-12/2022_Emergency Repair/10 Girders/10 Girders Details 2			
BRIDGE DES. ENG.	LELAND, A			
BRIDGE PROJ. ENG.	ROSA, M			
SUPERVISOR	ZELDENRUST, R			
DESIGNED BY	BONDY, T	09/22		
CHECKED BY	DORNSIFE, R	07/23		
ENTERED BY	TUBBS, N	09/22		
PRELIM. PLAN BY				
ARCH. / SPEC.				
PLOT DATE: 7/25/2023	PLOT TIME: 3:42:34 PM	PLOTTED BY: \$\$\$USERNAME\$\$\$		

10	WASH
JOB NUMBER	
CONTRACT NO.	

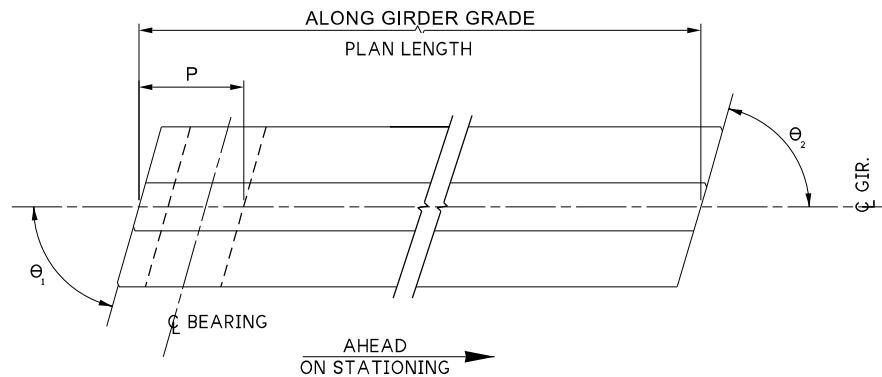


SR 14 LIESER ROAD BRIDGE EMERGENCY BRIDGE REPAIR		PLAN REF NO B10
W50G GIRDER DETAILS SHEET 2 OF 3		SHEET 25 OF 48 SHEETS

SR
BRIDGE SHEET
OF
FILE NO.

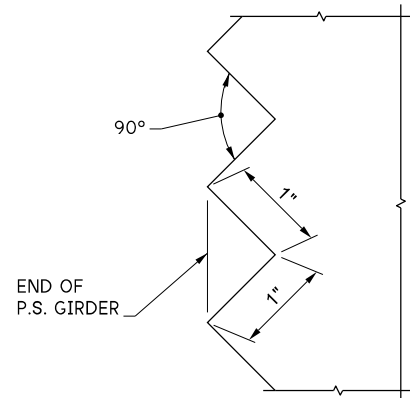


**TRANSVERSE REINFORCING
SKEWED ENDS**
ONLY TRANSVERSE REINF. SHOWN



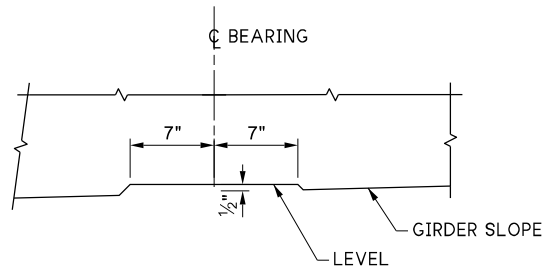
END 1

END 2

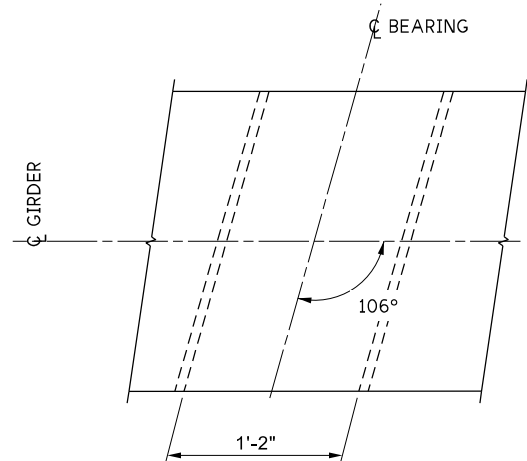


SAWTOOTH DETAILS

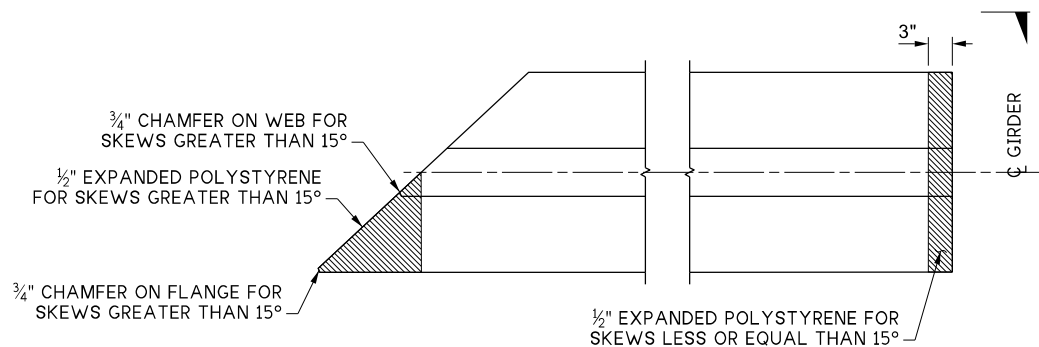
SAWTEETH ARE FULL WIDTH - USE SAWTOOTH KEYS
FROM BOTTOM OF BOTTOM FLANGE TO BOTTOM OF
LOWEST HARPED STRAND AS WELL AS TOP FLANGE
ADJACENT TO HARPED STRANDS AS SHOWN IN
VIEW B - W50G GIRDER DETAILS 1 OF 3



ELEVATION



**PLAN
BEARING RECESS @ PIER 1**



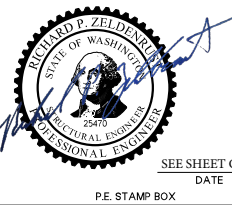
PLAN - BOTTOM FLANGE SPALL PROTECTION

GIRDER SCHEDULE

DIMENSION "A" AT C BEARINGS = 8"										BASED ON GIRDER DEFLECTION = "D" AT TIME OF SLAB PLACEMENT (120 DAYS)										
SPAN	GIRDER	END 1 TYPE	END 2 TYPE	θ ₁	θ ₂	P ₁	P ₂	PLAN LENGTH (ALONG GIRDER GRADE)	MIN. CONC. COMPR. STRENGTH		HARPED		STRAIGHT		LOCATION OF C.G. STRANDS			C (IN)	D @ 40 DAYS (IN)	D @ 120 DAYS (IN)
									@ FINAL F'CI KSI	@ RELEASE F'CI KSI	NO. OF STRANDS	JACKING FORCE (KIPS)	NO. OF STRANDS	JACKING FORCE (KIPS)	E	F _b	F _o			
1	G	A	C	74°	74°	14'-1 7/8"	N/A	100'-9 7/8"	8.5	7.5	10	439	12	527	2.67"	4"	8"	3/4"	1"	2.25"

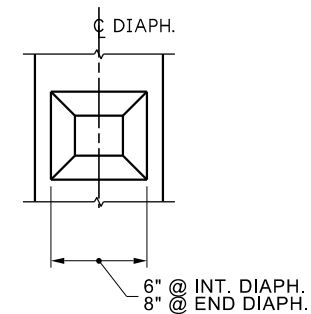
FILE PATH / NAME	pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/014/BR 14-12/2022_Emergency Repair/11 Girders/DGN/_Sheets/11 Girder Details 3			
BRIDGE DES. ENG.	LELAND, A			
BRIDGE PROJ. ENG.	ROSA, M			
SUPERVISOR	ZELDENRUST, R			
DESIGNED BY	BONDY, T	09/22		
CHECKED BY	DORNSIFE, R	07/23		
ENTERED BY	TUBBS, N	09/22		
PRELIM. PLAN BY				
ARCH. / SPEC.				
PLOT DATE: 7/25/2023	PLOT TIME: 3:42:37 PM	PLOTTED BY: \$\$USERNAME\$\$		

10	WASH
JOB NUMBER	
CONTRACT NO.	



SR 14 LIESER ROAD BRIDGE EMERGENCY BRIDGE REPAIR	
W50G GIRDER DETAILS SHEET 3 OF 3	

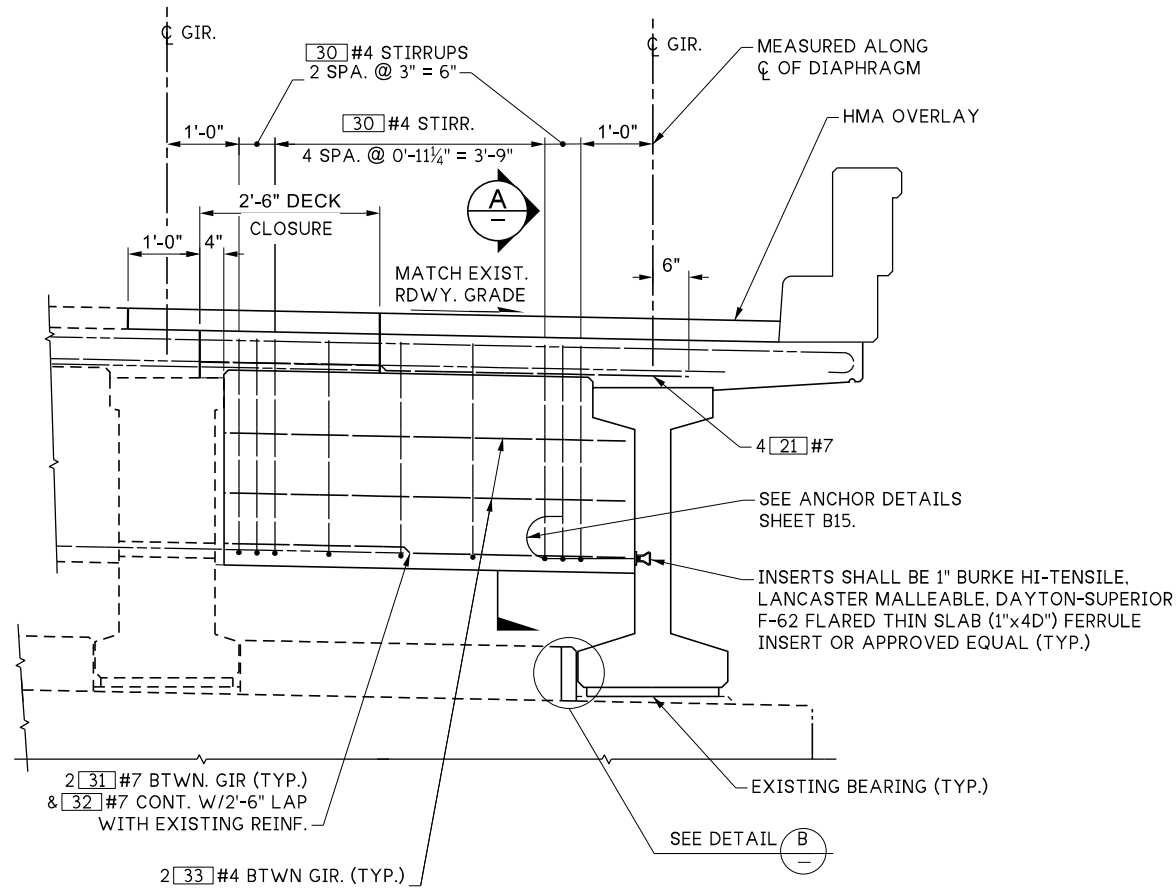
PLAN REF NO	B11
SHEET 26 OF 48 SHEETS	



- SR _____ BRIDGE SHEET _____ OF _____ FILE NO. _____

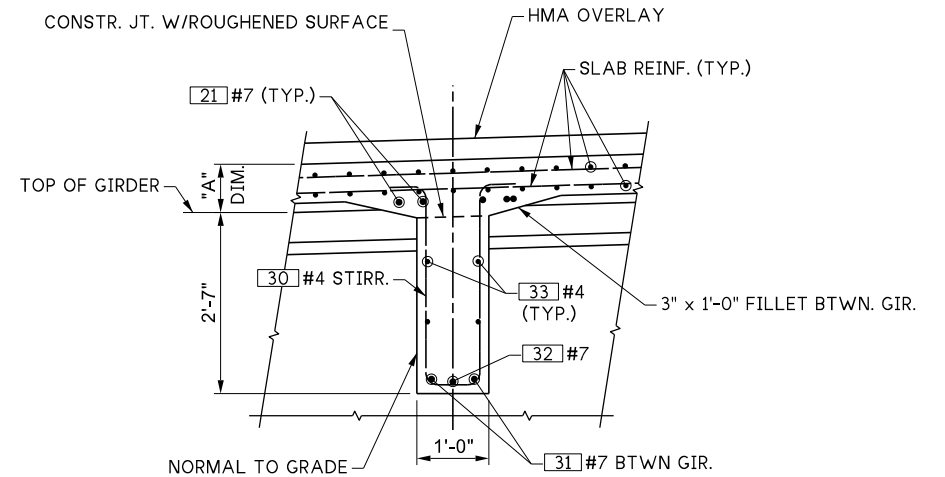
[illegible]

SR
BRIDGE SHEET
OF
FILE NO.

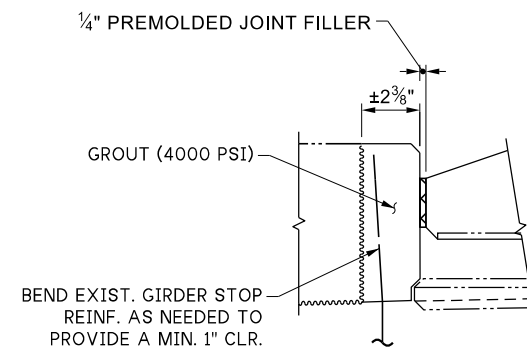


ELEVATION - PIER 1 DIAPHRAGM

NOTE: NO CLOSURE REQUIRED IN PIER 1 DIAPHRAGM



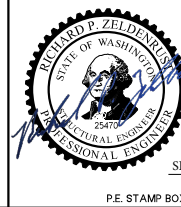
SECTION A



DETAIL B

FILE PATH / NAME	pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/014/BR 14-12/2022_Emergency Repair/014-12/2022_Emergency Repair/DGN/_Sheets/13 Pier 1 Diaphragm			
BRIDGE DES. ENG.	LELAND, A			
BRIDGE PROJ. ENG.	ROSA, M			
SUPERVISOR	ZELDENRUST, R			
DESIGNED BY	BONDY, T	09/22		
CHECKED BY	DORNSIFE, R	07/23		
ENTERED BY	TUBBS, N	09/22		
PRELIM. PLAN BY				
ARCH. / SPEC.				
PLOT DATE: 7/25/2023	PLOT TIME: 3:42:43 PM	PLOTTED BY: \$\$\$USERNAME\$\$\$		

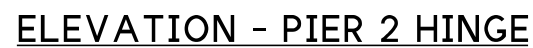
10	WASH
JOB NUMBER	
CONTRACT NO.	



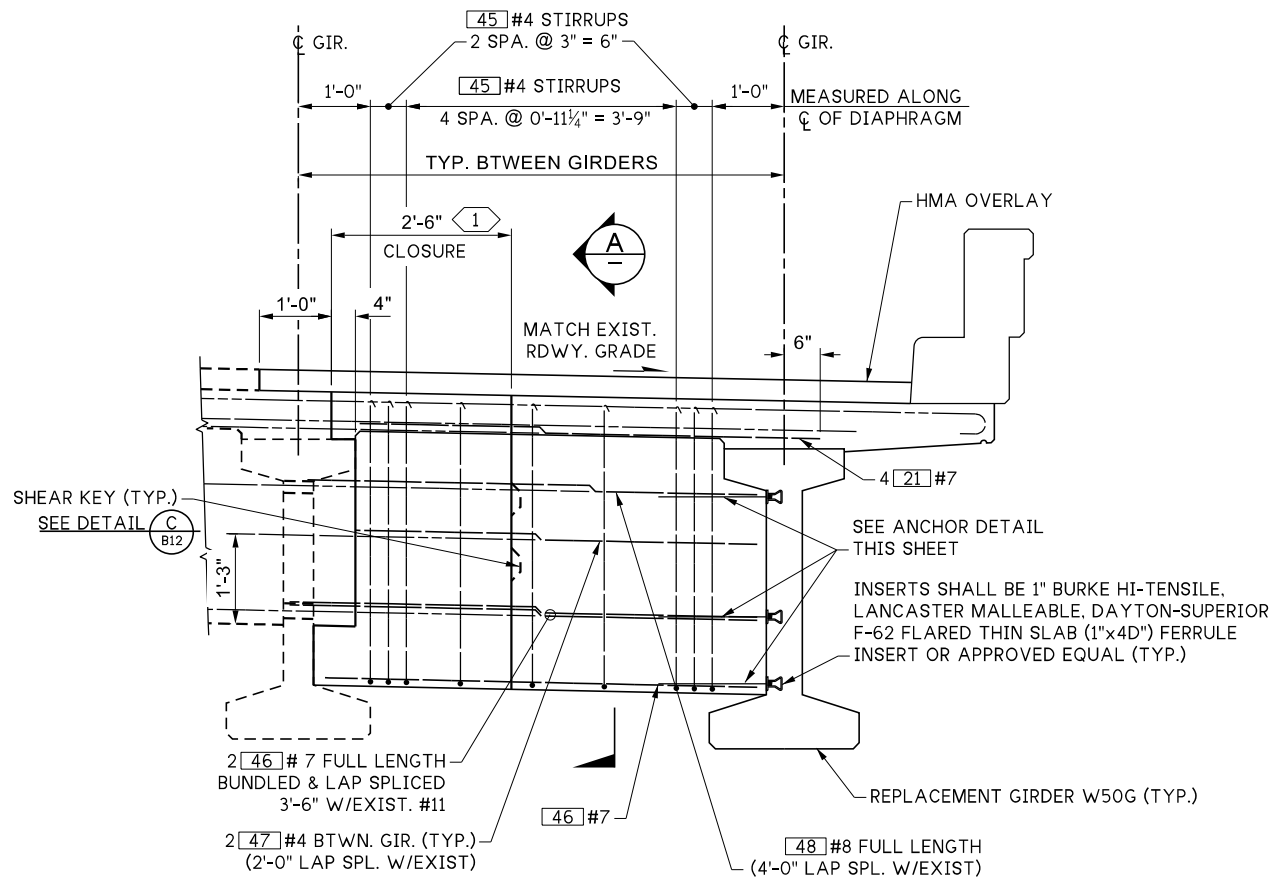
SR 14
LIESER ROAD BRIDGE
EMERGENCY BRIDGE REPAIR

PIER 1 DIAPHRAGM

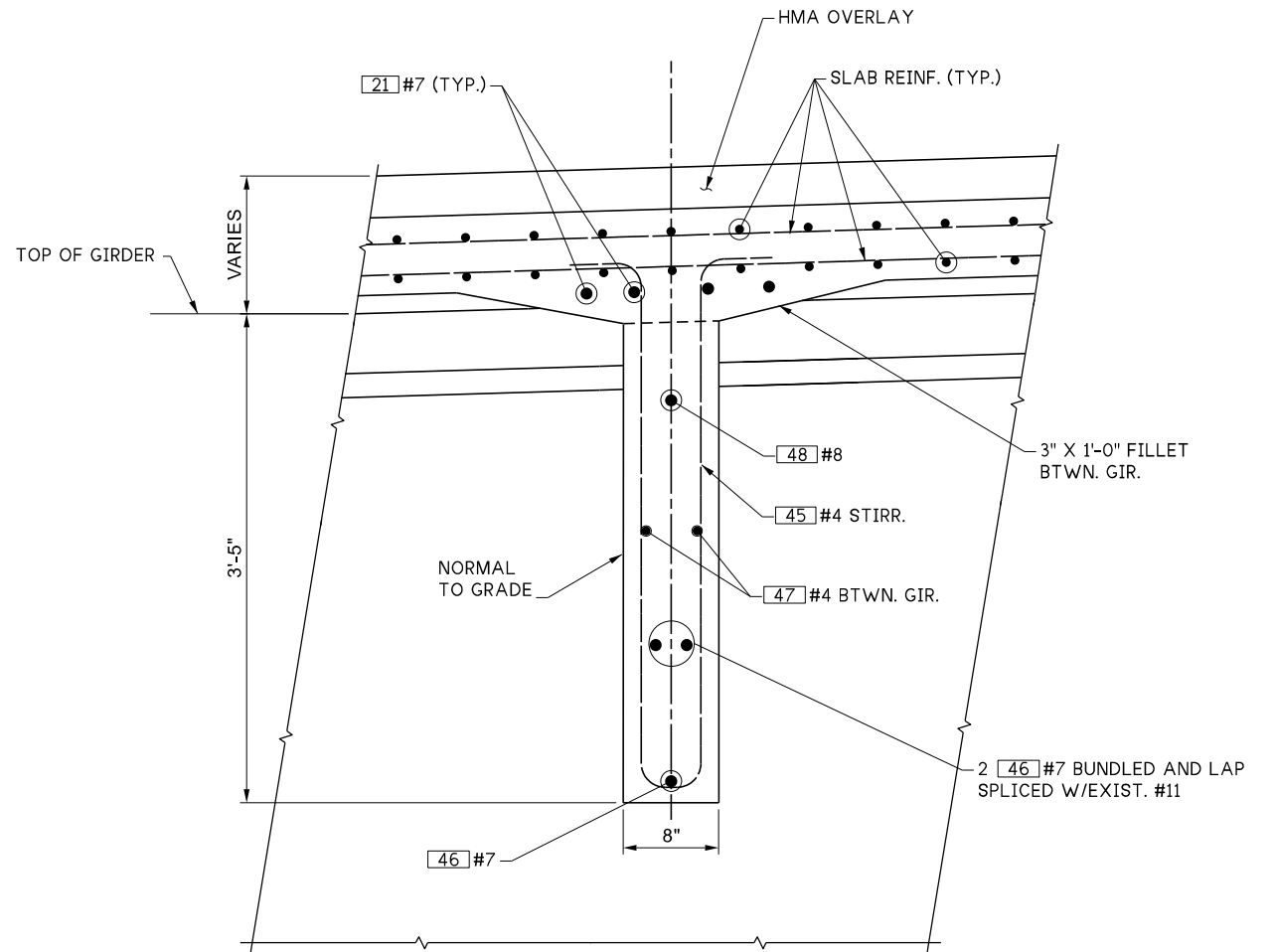
PLAN REF NO
B13
SHEET
28
OF
48
SHEETS



AN REF NO
B14
SHEET
29
OF
48
SHEETS



ELEVATION - INTERMEDIATE DIAPHRAGM



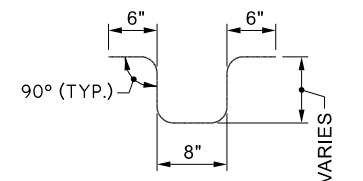
SECTION A

NOTES:

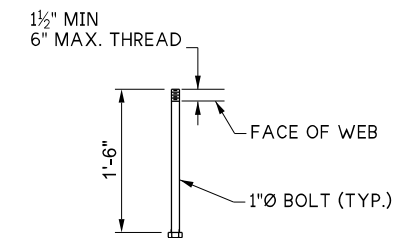
- CLOSURE IN INTERMEDIATE DIAPHRAGM TO BE CAST WITH LONGITUDINAL DECK CLOSURE.
- H1 #5 HAT BAR MAY BE OMITTED AT LOCATIONS WHERE GIRDER STIRRUPS PROJECT AT LEAST 3" ABOVE THE BOTTOM OF THE TRANSVERSE BAR IN THE BOTTOM MAT OF THE BRIDGE DECK.

BENDING DIAGRAM

ALL DIMENSIONS ARE OUT-TO-OUT

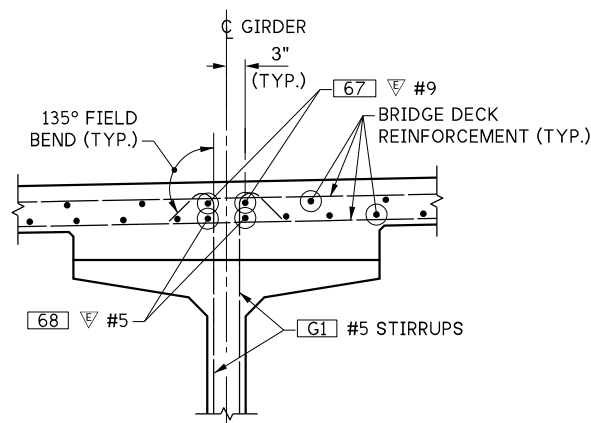


OPTION 2 ~ H1 #5 HAT BAR



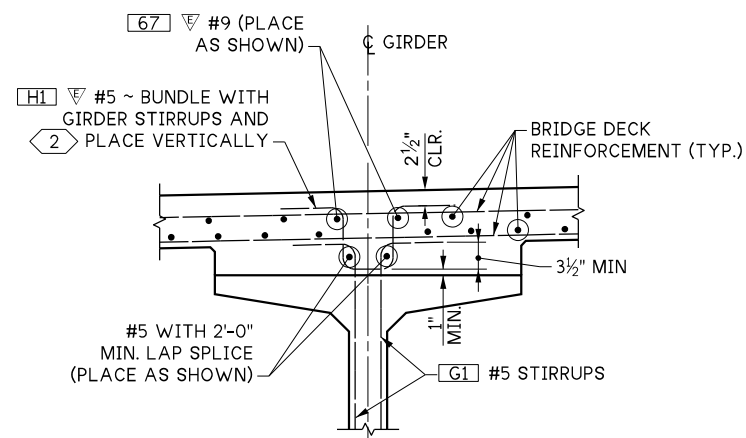
ANCHOR DETAIL

A.S.T.M. A-307



TYPICAL SECTION THROUGH GIRDER

OPTION 1 FIELD BEND GIRDER STIRRUPS



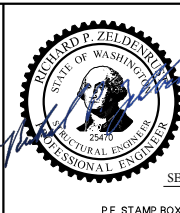
TYPICAL SECTION THROUGH GIRDER

OPTION 2 PRE-BENT G1 #5 STIRRUPS WITH H1 #5 HAT BAR

SR BRIDGE SHEET 10 OF 30

FILE PATH / NAME	pw://projectstore.wsdot.wa.gov/WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/014/BR 14-12/2022_Emergency Repair/014-12-2022_Emergency Repair/DGN/Sheets/15 Intermediate Diaphragm		
BRIDGE DES. ENG.	LELAND, A		
BRIDGE PROJ. ENG.	ROSA, M		
SUPERVISOR	ZELDENRUST, R		
DESIGNED BY	BONDY, T	09/22	
CHECKED BY	DORNSIFE, R	07/23	
ENTERED BY	TUBBS, N	09/22	
PRELIM. PLAN BY			
ARCH. / SPEC.			
	REVISION	DATE	BY

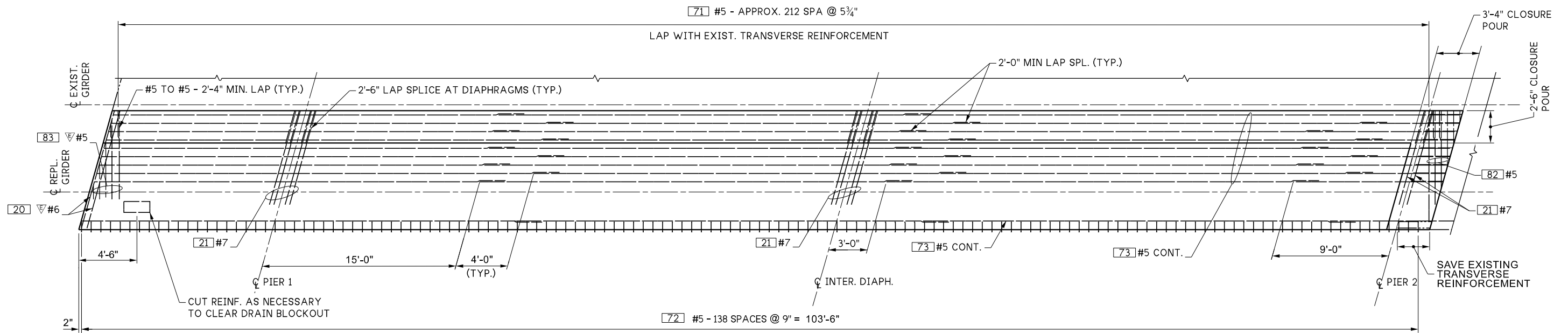
10	WASH
	JOB NUMBER
	CONTRACT NO.



SR 14 LIESER ROAD BRIDGE EMERGENCY BRIDGE REPAIR	
INTERMEDIATE DIAPHRAGM	

PLAN REF NO	B15
SHEET OF SHEETS	30 OF 48

SR
BRIDGE SHEET
OF
FILE NO.






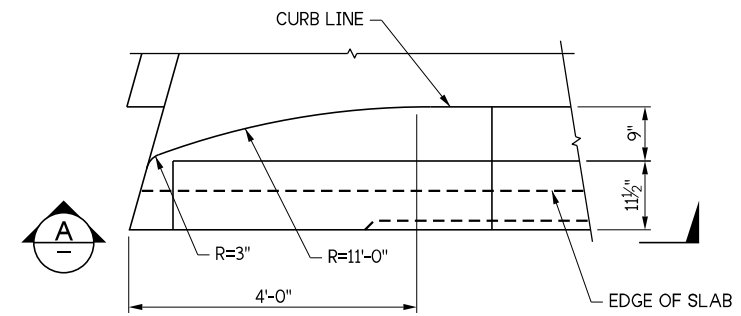
SLAB PLAN - BOTTOM MAT REINFORCEMENT

BRIDGE SHEET <

SR

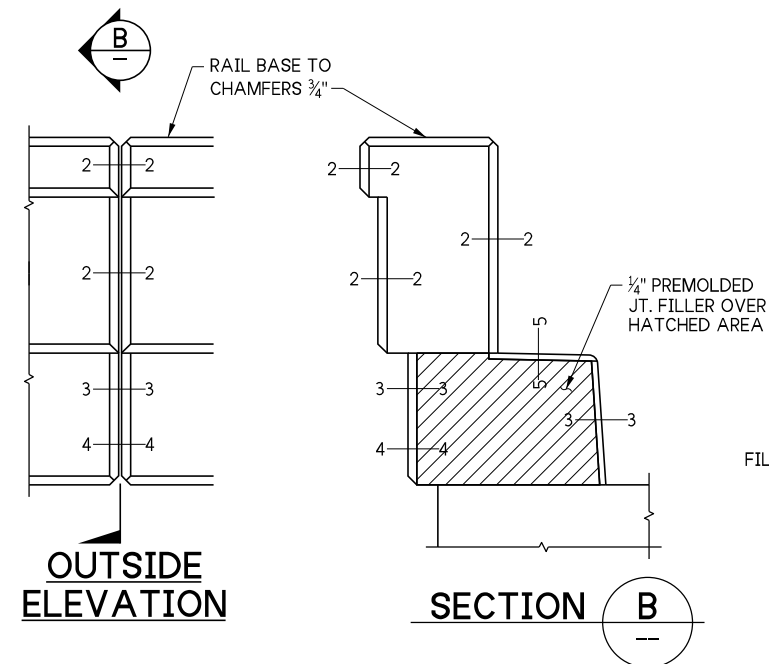


BRIDGE SHEET	FILE PATH / NAME				pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/014/BR 14-12/2022_Emergency Repair/10626/DGN/_Sheets/18 Slab Reinforcement				SECTION NO.	10	WASH				SR 14 LIESER ROAD BRIDGE EMERGENCY BRIDGE REPAIR	PLAN REF NO.	
	BRIDGE DES. ENG.		LELAND, A													JOB NUMBER	B18
	BRIDGE PROJ. ENG.		ROSA, M														
	SUPERVISOR		ZELDENRUST, R														
	DESIGNED BY		BONDY, T		09/22												
	CHECKED BY		DORNSIFE, R		07/23												
	ENTERED BY		TUBBS, N		09/22											CONTRACT NO.	SHEET 33 OF 48 SHEETS
PRELIM. PLAN BY																	
SR	ARCH. / SPEC.				REVISION			DATE	BY						SLAB REINFORCEMENT		
	PLOT DATE: 7/25/2023		PLOT TIME: 3:43:01 PM		PLOTTED BY: \$\$USERNAME\$\$												



Technical drawing of a stepped profile. A dimension line at the top indicates a width of 2'-8". The profile consists of a base, a first step, a second step, and a third step, with a break symbol shown on the right side.

SECTION A
—



OUTSIDE
ELEVATION

SECTION **B**

1/4" OPEN JT.

SECT. 2-2
AT RAIL BASE JT.

$\frac{1}{4}$ " DUMMY JT.

SECT. 4-4
AT RAIL BASE JTS.
WHERE NO CURB JT. OCCURS

FILLER CHIPPED OUT

1/4" FILLER JT.

SECT. 3-3
AT CURB JTS.

Diagram illustrating a curb joint (Curb Jts.) with a $\frac{1}{4}"$ FILLER JT. and FILLER CHIPPED OUT.

SECT. 5-5
AT CURB JTS.

CURB & RAIL BASE
TYPICAL SECTION


KEY NOTE:

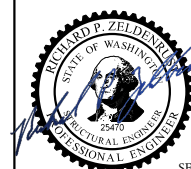
1 DIMENSIONS TO MATCH EXISTING

TRAFFIC BARRIER BAR LIST			
ALL REINFORCING SHALL BE ASTM A706			
MARK	SIZE	LENGTH	
S2	4	1'-4"	
S3	4	(A)	STR.
S4	4	(A)	STR.
S5	4	2'-9"	
S6	5	3'-3"	
S7	6	(A)	STR.

(A) DETERMINE FROM PLANS

BENDING DIAGRAM (ALL DIMENSIONS ARE OUT-TO-OUT)

BRIDGE SHEET	FILE PATH / NAME		pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/014/BR 14-12/2022_Emergency Repair				REGION NO.	XL 666/	DGN/ Sheets/19 Barrier	
	BRIDGE DES. ENG.		LELAND, A					10	WASH	
	BRIDGE PROJ. ENG.		ROSA, M							
	SUPERVISOR		ZELDENRUST, R					JOB NUMBER		
	DESIGNED BY		BONDY, T		09/22					
	CHECKED BY		DORNSIFE, R		07/23					
	ENTERED BY		TUBBS, N		09/22					
	PRELIM. PLAN BY							CONTRACT NO.		
SR	ARCH. / SPEC.		REVISION				DATE	BY		
PLOT DATE: 7/25/2023		PLOT TIME: 3:43:05 PM		PLOTTED BY: \$\$USERNAME\$\$						



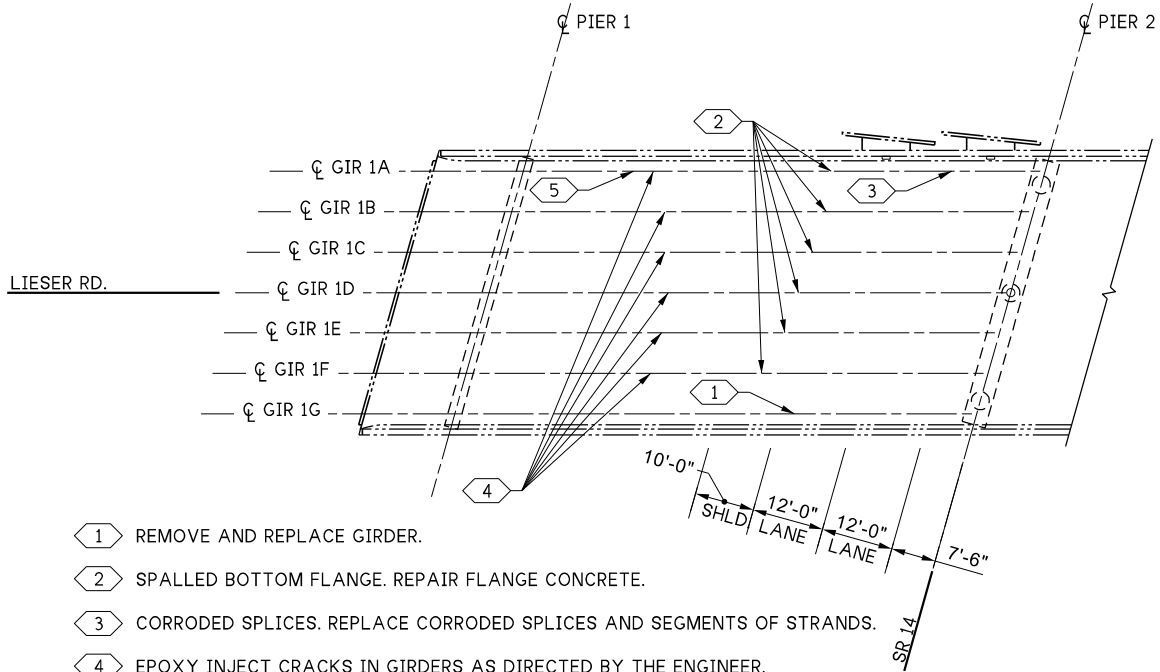
SR 14
LIESER ROAD BRIDGE
EMERGENCY BRIDGE REPAIR

BARRIER DETAILS AND RAIL REPLACEMENT DETAILS

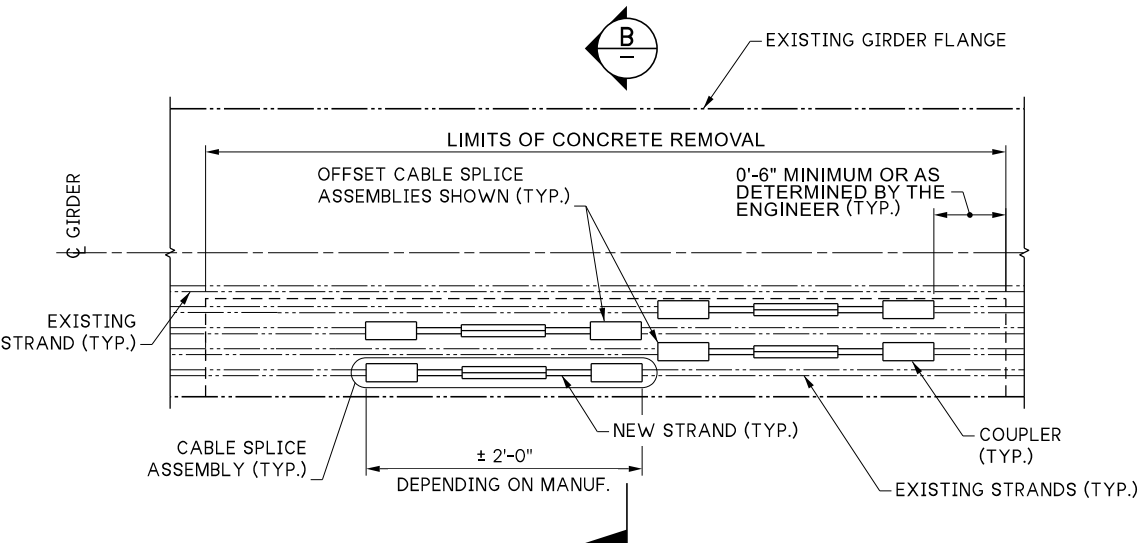
AN REF NO

B19

SHEET
34
OF
48
SHEETS



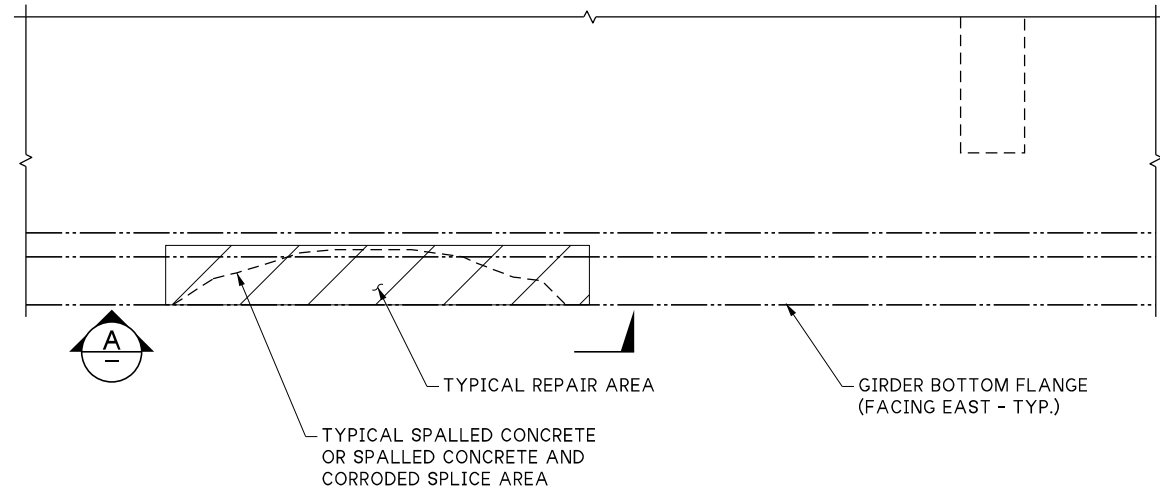
- 1 REMOVE AND REPLACE GIRDER.
- 2 SPALLED BOTTOM FLANGE. REPAIR FLANGE CONCRETE.
- 3 CORRODED SPLICES. REPLACE CORRODED SPLICES AND SEGMENTS OF STRANDS.
- 4 EPOXY INJECT CRACKS IN GIRDERS AS DIRECTED BY THE ENGINEER.
- 5 PERFORM FULL-DEPTH EPOXY INJECTION. PLACE INJECTION PORTS AND VENT PORTS ON BOTH SIDES OF THE GIRDER AT 6" SPACING.



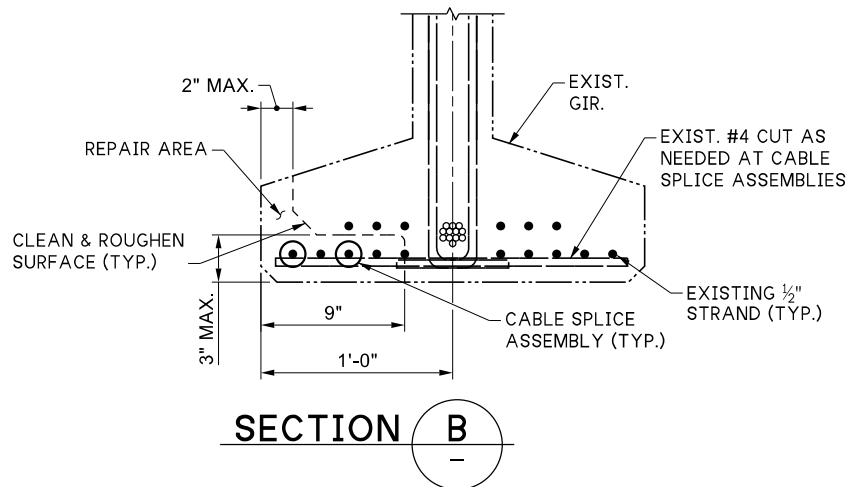
VIEW A

**PLAN BOTTOM FLANGE
MULTIPLE STRAND REPAIR**

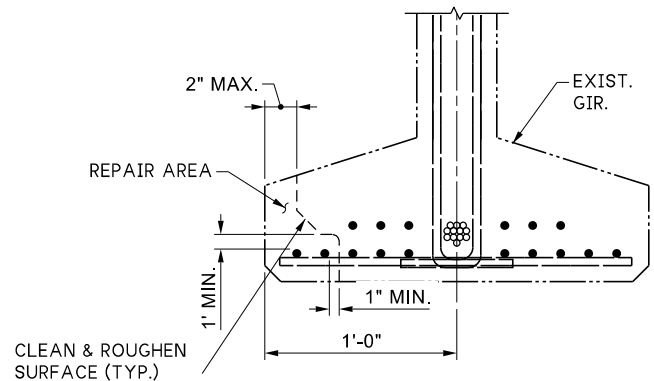
(GIRDER 1A)



EXISTING GIRDER ELEVATION



SECTION B



**GIRDER REPAIR
SPALLED FLANGE**

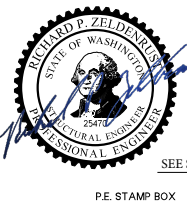
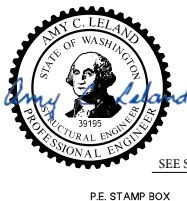
ORDER OF GIRDER REPLACEMENT AND GIRDER REPAIR WORK:

1. REMOVE AND REPLACE GIRDER 1G.
2. ON GIRDERS 1A - 1F, REMOVE DAMAGED AND UNSOUND CONCRETE TO THE LIMITS SHOWN OR AS DIRECTED BY THE ENGINEER. PROVIDE 3/4" SAWCUT AT ALL EDGES OF THE REPAIR. CONCRETE SHALL BE REMOVED AROUND ALL EXPOSED REBAR AND STRANDS TO PROVIDE A MINIMUM OF 1" CLEARANCE AROUND THE BAR OR STRAND FOR CONCRETE PLACEMENT.
3. ON GIRDER 1A, CUT DAMAGED STRANDS AS REQUIRED FOR THE APPROVED CABLE SPLICE. LUBRICATE AND INSTALL CABLE SPLICES PER THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL BEGIN WITH THE INNERMOST STRAND AND PROGRESS OUTWARD TOWARD EXTERIOR FACE OF THE GIRDER. TORQUE THE CABLE SPLICE TO THE LUBRICATED TORQUE VALUE, AS SPECIFIED BY THE SPLICE MANUFACTURER, TO PROVIDE A FORCE OF 10 KIPS IN EACH SPLICED STRAND.
4. ON GIRDERS 1A - 1F, NEEDLE SCALE OR SANDBLAST RUST FROM CORRODED REBAR AND APPLY RUST INHIBITOR PER MANUFACTURER'S RECOMMENDATIONS.
5. ON GIRDERS 1A - 1F, INSTALL PATCH PINS 4" ON CENTER EACH WAY WITH 2" MAXIMUM EDGE DISTANCE. DRILL FOR AND INSTALL PATCH PINS PER MANUFACTURER'S RECOMMENDATIONS.
6. ON GIRDER 1A, PLACE FORMWORK AND POUR GIRDER REPAIR CONCRETE. GIRDER REPAIR CONCRETE SHALL BE CLASS 6000. DURING PLACEMENT OF THE GIRDER REPAIR CONCRETE ON GIRDER 1A, AND DURING THE FOLLOWING 24 HOURS, TRAFFIC SHALL BE RESTRICTED TO ONLY ONE LANE ALONG THE EAST SIDE OF THE LIESER ROAD BRIDGE.
7. ON GIRDERS 1B - 1F, APPLY EPOXY CONCRETE BONDING AGENT TO SPALL AREA. APPLY APPROVED PATCHING MATERIAL BEFORE EPOXY BONDING AGENT TAKES INITIAL SET. EPOXY BONDING AGENT SHALL BE PER WSDOT STANDARD SPECIFICATIONS 9-26.1(1)B.
8. ON GIRDER 1A, PERFORM FULL-DEPTH EPOXY INJECTION ON THE 40' LONG CRACK AT THE INTERFACE BETWEEN THE TOP FLANGE AND THE WEB. PLACE INJECTION PORTS AND VENT PORTS ON BOTH SIDES OF THE GIRDER AT 6" SPACING.
9. ON GIRDERS 1A - 1F, EPOXY INJECT ALL CRACKS AS DIRECTED BY THE ENGINEER.

SR
BRIDGE SHEET
OF
FILE NO.



FILE PATH / NAME	pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/014/BR 14-12/2022_Emergency Repair/Region 10/Leland/DGN/Sheets/21 Damaged Girder Repair			
BRIDGE DES. ENG.	LELAND, A			
BRIDGE PROJ. ENG.	ROSA, M			
SUPERVISOR	ZELDENRUST, R			
DESIGNED BY	BONDY, T	09/22		
CHECKED BY	DORNSIFE, R	07/23		
ENTERED BY	TUBBS, N	09/22		
PRELIM. PLAN BY				
ARCH. / SPEC.				
PLOT DATE: 7/25/2023	PLOT TIME: 3:43:12 PM	PLOTTED BY: \$\$\$USERNAME\$\$\$		



10	WASH
JOB NUMBER	
CONTRACT NO.	



SR 14 LIESER ROAD BRIDGE EMERGENCY BRIDGE REPAIR	
GIRDER REPAIR DETAILS	
PLAN REF NO	B21
SHEET OF SHEETS	36 OF 48

MARK NO.	LOCATION	SIZE	QTY.	BEND TYPE	TIE OR STIRR. (1)	SUBSTR. (2)	COATING TYPE (3)	VARIES	NO. EACH	DIMENSIONS (OUT TO OUT)														LENGTH		WEIGHT
										U		W		X		Y		Z		θ ₁	θ ₂					
										Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Deg.	Deg.	Ft.	In.	Lbs		
	END DIAPHRAGM																									
20	SLAB	6	2	51			E			9	8.0										10	4.0			31	
22	STIRRUP	4	9	71	T					0	8.0	4	9.0	4	9.0						9	9.0			59	
23	TIE	4	15	56	T					1	1.0										1	8.0			17	
24	LONGITUDINAL	4	9	50	T					9	2.0										9	2.0			55	
26	BOTTOM DIAPHRAGM	6	2	50			E			9	2.0										9	2.0			28	
68	DIAPHRAGM TO SLAB	7	3	74			E			3	8.0	7	0.0	0	0.0						10	6.0			64	
69	DIAPHRAGM TO SLAB	7	10	74			E			3	8.0	3	0.0	0	0.0						6	6.0			133	
	PIER 1 DIAPHRAGM																									
21	SLAB	7	4	50	T					7	10.0										7	10.0			64	
30	STIRRUP	4	9	63	T					0	9.0	2	9.0	2	9.0	0	6.0	0	6.0		6	11.0			42	
31	BOTTOM DIAPHRAGM	7	2	50	T					5	10.0										5	10.0			24	
32	DIAPHRAGM CONTINUOUS	7	1	50	T					5	10.0										5	10.0			12	
33	DIAPHRAGM	4	4	50	T					5	10.0										5	10.0			16	
	PIER 2 HINGE																									
21	SLAB	7	2	50						7	10.0										7	10.0			32	
40	STIRRUP	4	6	63	T					0	6.0	4	8.0	4	8.0	0	6.0	0	6.0		10	5.0			42	
41	HINGE BOTTOM	6	2	50	T					7	3.0										7	3.0			22	
42	HINGE	4	6	50	T					6	8.0										6	8.0			27	
43	GIRDER DOWEL	4	6	74						1	2.0	0	9.0	0	0.0						1	10.0			7	
44	HINGE BOTTOM	4	2	50	T					7	3.0										7	3.0			10	
	INTERMEDIATE DIAPHRAGM																									
21	SLAB	7	4	50	T					7	10.0										7	10.0			64	
45	STIRRUP	4	9	63	T					0	5.0	2	11.0	2	11.0	0	5.0	0	5.0		6	8.0			40	
46	DIAPHRAGM BOTTOM	7	3	50	T					6	3.0										6	3.0			38	
47	DIAPHRAGM BOTTOM	4	2	50	T					5	10.0										5	10.0			8	
48	HINGE	8	1	50	T					6	3.0										6	3.0			17	
	SLAB																									
50	TOP SLAB	4	1	50			E			29	8.0										29	8.0			20	
51	TOP SLAB	4	1	50			E			40	0.0										40	0.0			27	
52	TOP	9	3	50			E			40	4.0										40	4.0			411	
53	TOP	9	3	50			E			33	2.0										33	2.0			338	
54	TOP	4	1	50			E			25	10.0										25	10.0			17	
55	TOP	10	3	50			E			35	4.0										35	4.0			456	
56	TOP	10	6	50			E			39	11.0										39	11.0			1031	
57	TOP	4	2	50			E			27	0.0										27	0.0			36	
58	TOP	4	2	50			E			17	8.0										17	8.0			24	
59	TOP	4	2	50			E			40	0.0										40	0.0			53	
60	TOP	4	2	50			E			15	6.0										15	6.0			21	
61	TOP	10	3	50			E			11	7.0										11	7.0			150	
62	TOP	9	3	50			E			32	7.0										32	7.0			332	
63	TOP	9	2	50			E			30	4.0										30	4.0			206	
65	TOP	9	3	50			E			39	9.0										39	9.0			405	
64	TOP	9	1	50			E			33	0.0										33	0.0			112	
66	TOP	9	3	50			E			39	7.0										39	7.0			404	
67	TOP	9	2	89			E			103	11.0	3	6.0								107	5.0			730	
70	TOP TRANSVERSE	5	213	51			E			9	1.0										9	8.0			2145	
80	TOP TRANSVERSE	5	2	50			E	V	1	7	1.0										7	1.0			17	
										8	9.0										8	9.0				
81	TOP TRANSVERSE	5	4	51			E	V	1	2	6.0										3	1.0			23	
										7	5.0										7	12.0				
71	BOTTOM TRANSVERSE	5	213	50	T		E			7	3.0										7	3.0			1611	
72	BARRIER	5	139	69	T		E			0	6.0	0	3.0	1	2.0	0	6.0	0	6.0		2	5.0			353	

- (1) T = TRANSVERSE S = SEISMIC
- (2) S = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES
- (3) E = BAR IS TO BE EPOXY COATED  G = BAR IS TO BE GALVANIZED 
- (4) V = BAR DIMENSIONS VARY BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE


- (1) T = TRANSVERSE S = SEISMIC
- (2) S = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES
- (3) E = BAR IS TO BE EPOXY COATED  G = BAR IS TO BE GALVANIZED 
- (4) V = BAR DIMENSIONS VARY BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE

FILE PATH / NAME	pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/014/BR 14-12/2022_Emergency Repair/014-XL6626/DGN/_Sheets/22 Barlist		
BRIDGE DES. ENG.	LELAND, A		
BRIDGE PROJ. ENG.	ROSA, M		
SUPERVISOR	ZELDENRUST, R		
DESIGNED BY	BONDY, T	09/22	
CHECKED BY	DORNSIFE, R	07/23	
ENTERED BY	TUBBS, N	09/22	
PRELIM. PLAN BY			
ARCH. / SPEC.			
PLOT DATE: 7/25/2023		PLOT TIME: 3:43:15 PM	PLOTTED BY: \$\$USERNAME\$\$

10

WASH

JOB NUMBER



CONTRACT NO.

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

SR 14

LIESER ROAD BRIDGE

EMERGENCY BRIDGE REPAIR

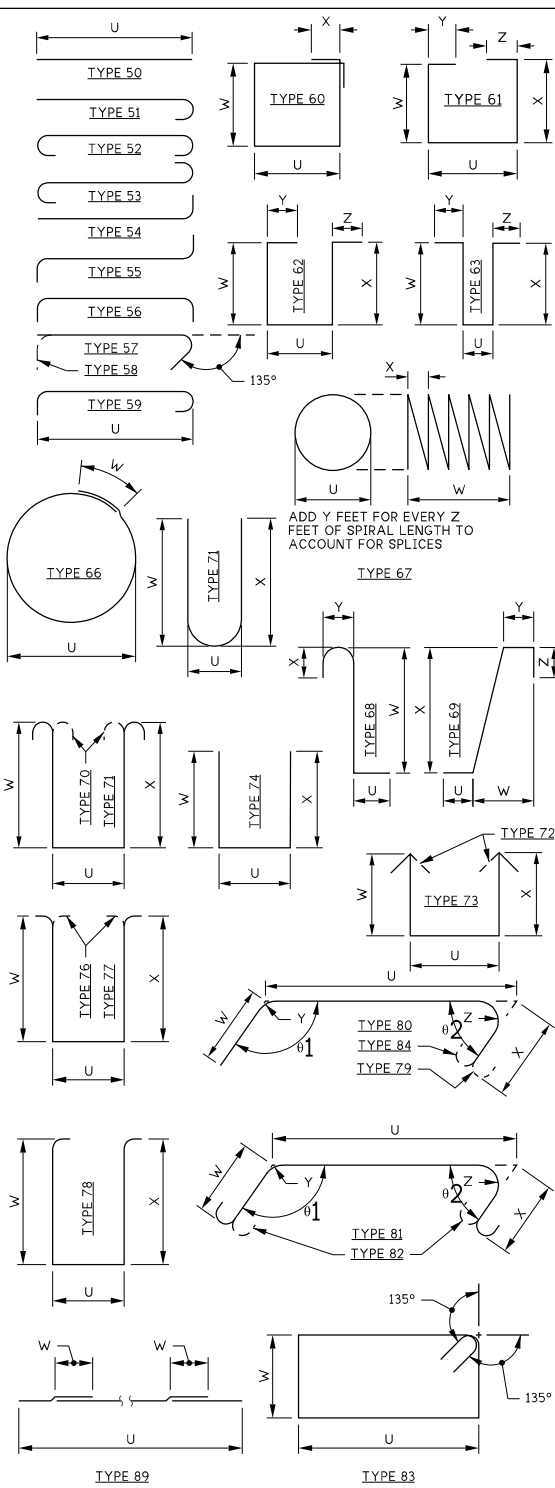
BARLIST

PLAN REF NO

B22

SHEET 37 OF 48 SHEETS

BENDING DIAGRAMS



GUARDRAIL SCHEDULE		
	BEAM GUARDRAIL TRANSITION SECTION TYPE 24	BEAM GUARDRAIL TYPE 31
LOCATION	EACH	L.F.
STA. 9+00	1	
STA. 8+98.73 TO STA. 7+61.23		137.5
GENERAL NOTES: 1.INSTALL BEAM GUARDRAIL CONNECTION TO STRUCTURE - ADAPTER PLATE PER STD PLN C-24.15. 2.INSTALL GUARDRAIL CONNECTION B TO BRIDGE TRAFFIC BARRIER PER STD. PLN. C-24.10. 3.INSTALL BEAM GUARDRAIL TRANSITION SECTION TYPE 24 PER STD PLN C-25.30. 4.INSTALL BEAM GUARDRAIL TYPE 31 TO BEAM GUARDRAIL TYPE 1 ADAPTOR PER STD. PLN C-25.80.		

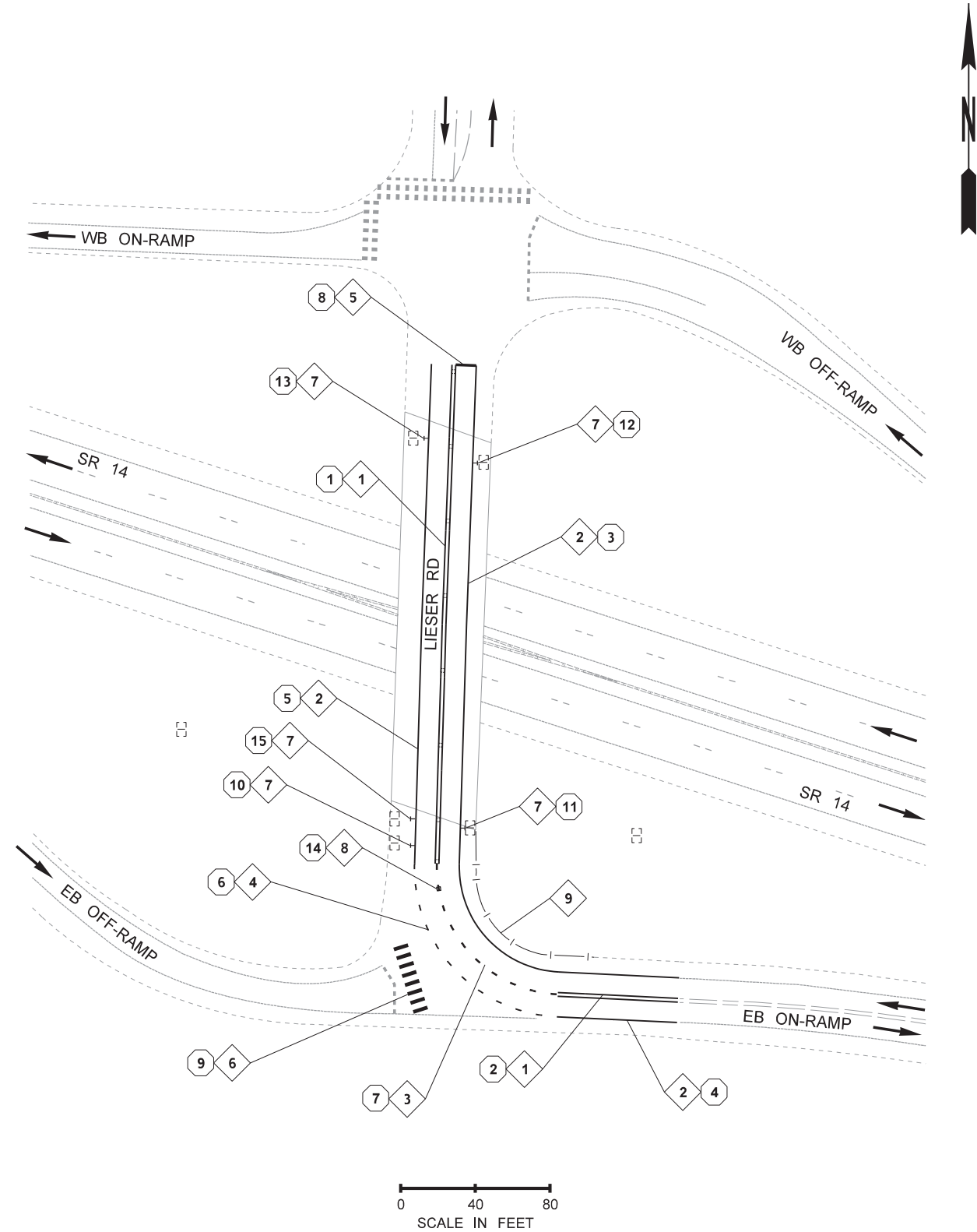
NOTES:

1. STOP LINE SHALL BE 24" WIDE PLASTIC (EITHER TYPE A OR B).
2. RAISED PAVEMENT MARKERS ARE AT 40' SPACING. SEE CITY OF VANCOUVER STD. PLN. T29-48.
3. SEE SHEET QT2 FOR QUANTITY TABULATION.

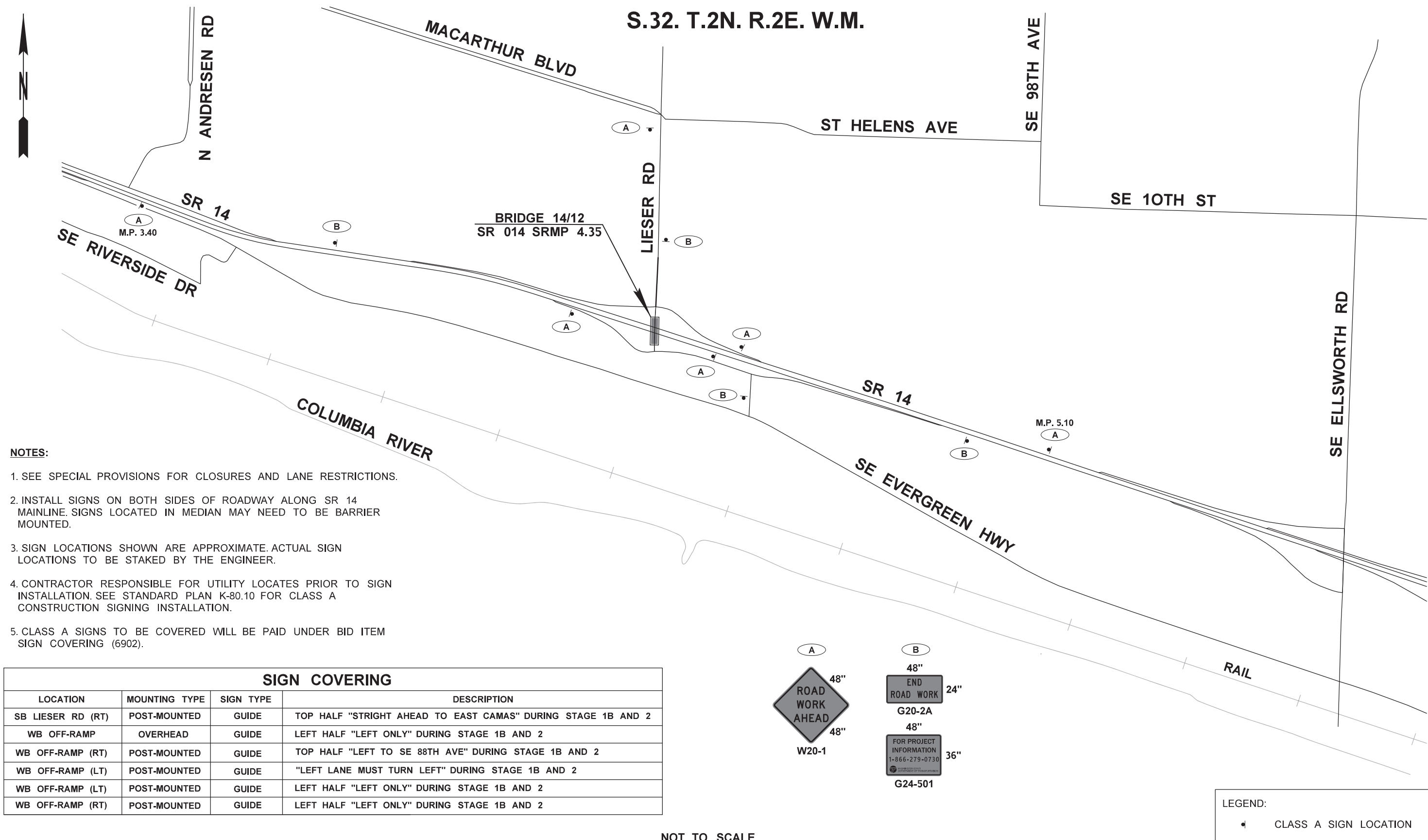
LEGEND:	
#	QUANTITY TAB REFERENCE
#	CONSTRUCTION NOTE
=====	DOUBLE CENTERLINE NEW (Y)
————	EDGE LINE NEW (W)
- - - -	DOTTED EXTENSION LINE NEW (Y)
- - - -	DOTTED EXTENSION LINE NEW (W)
————	STOP LINE NEW
	CROSSWALK LINE NEW
-+ -+ -+ -+	PLASTIC DRAINAGE MARKING NEW
- —— —	BEAM GUARDRAIL NEW
◦	RAISED PAVEMENT MARKER NEW
-----	SHOULDER PAVED EDGE EXISTING
=====	DOUBLE CENTERLINE EXISTING
————	EDGE LINE EXISTING
-- -- --	LANE LINE EXISTING
=====	BARRIER EXISTING
-----	STOP LINE EXISTING
□	STORM DRAIN INLET EXISTING
Y	YELLOW
W	WHITE

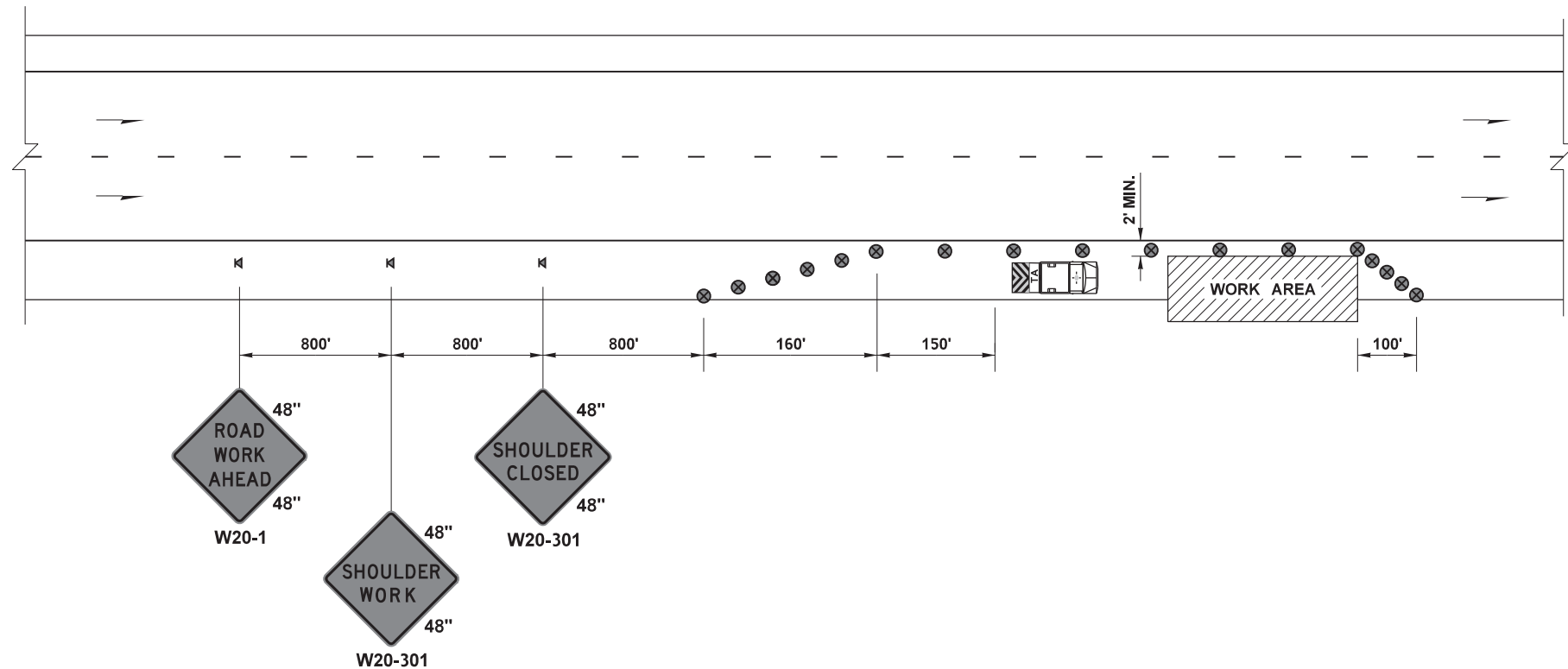
CONSTRUCTION NOTES:

- # 1
- PAINT LINE - DOUBLE CENTERLINE (Y)
- # 2
- PAINT LINE - EDGE LINE (W)
- # 3
- PAINT LINE - DOTTED EXTENSION LINE (Y)
- # 4
- PAINT LINE - DOTTED EXTENSION LINE (W)
- # 5
- PLASTIC STOP LINE - 24"
- # 6
- PLASTIC CROSSWALK LINE
- # 7
- PLASTIC DRAINAGE MARKING
- # 8
- RAISED PAVEMENT MARKER - TYPE 2
- # 9
- BEAM GUARDRAIL (ASSEMBLY)



FILE NAME		G:\444302\03 - Design\01422G SR 14 Lieser Rd Br - Emergency Br Repair\20-CADD-Plans\20-2 PS&E Sheets\01422G PS_MKRD_GUARDRAIL AND										.dgn						Plot 1	
TIME		4:54:12 PM								REGION NO.		STATE		FED.AID PROJ.NO.				PLAN REF NO	
DATE		6/15/2023								10		WASH		ER-STBG-2C05001				MK1	
PLOTTED BY		GregorR																SHEET 39 OF 48 SHEETS	
DESIGNED BY		R. GREGORIO								JOB NUMBER									
ENTERED BY		CGAEO								22X347									
CHECKED BY		T. HARTMANN								CONTRACT NO.									
PROJ. ENGR.		M. BRIGGS										LOCATION NO.							
REGIONAL ADM.		C. FRANCIS		REVISION		DATE		BY				XL6636							





LEGEND:

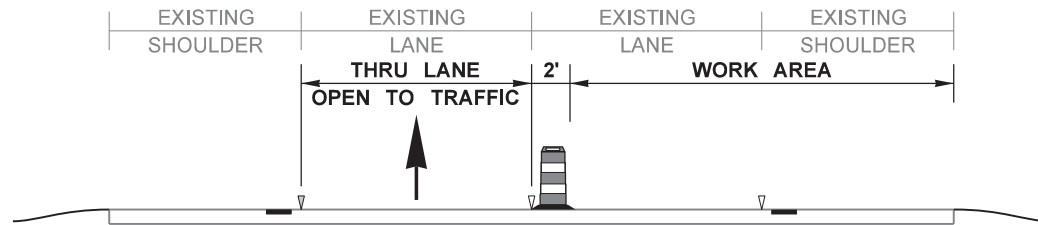
- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- TEMPORARY SIGN LOCATION (5'MIN HEIGHT)
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR

NOTES:

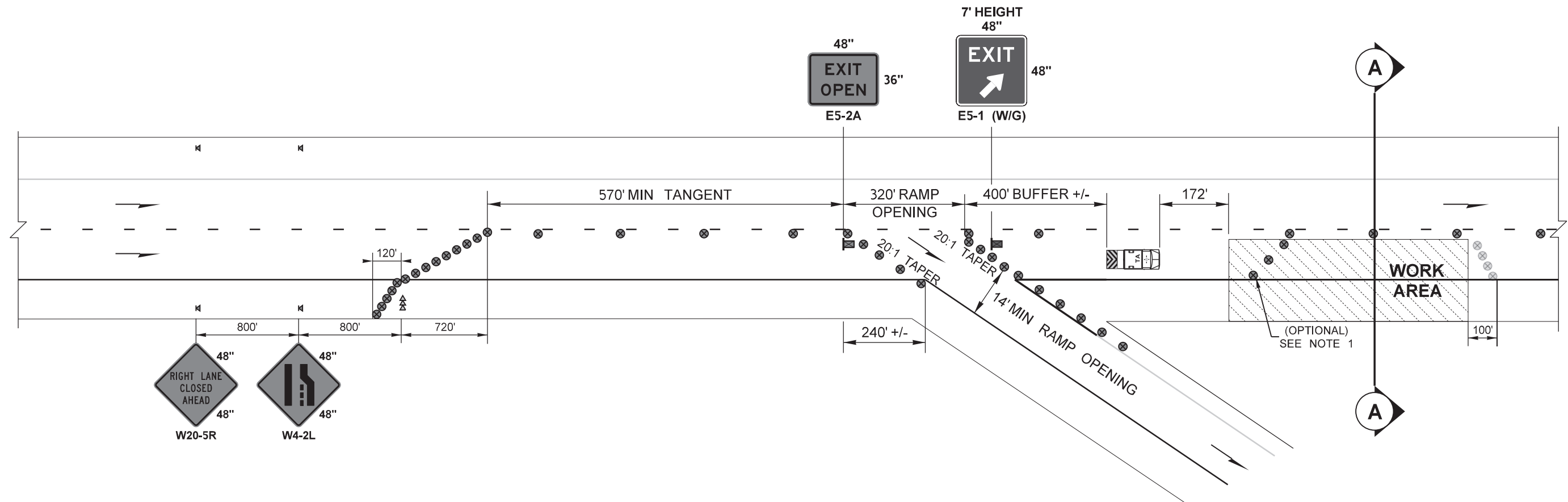
- SHOULDER CLOSURE VALID FOR DOUBLE-LANE OR MULTI-LANE ROADWAYS.
- DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'(FT) O.C.
- CONTRACTOR SHALL SHUTTLE BICYCLE TRAFFIC AROUND/THRU WORK ZONE, AS NEEDED.

SHOULDER CLOSURE - HIGH SPEED
NOT TO SCALE

FILE NAME										G:\444302\03 - Design\01422G SR 14 Lieser Rd Br - Emergency Br Repair\20-CADD-Plans\20-2 PS&E Sheets\01422G_PS_TC_TRAFFIC CONTROL PLANS.dgn										Plot 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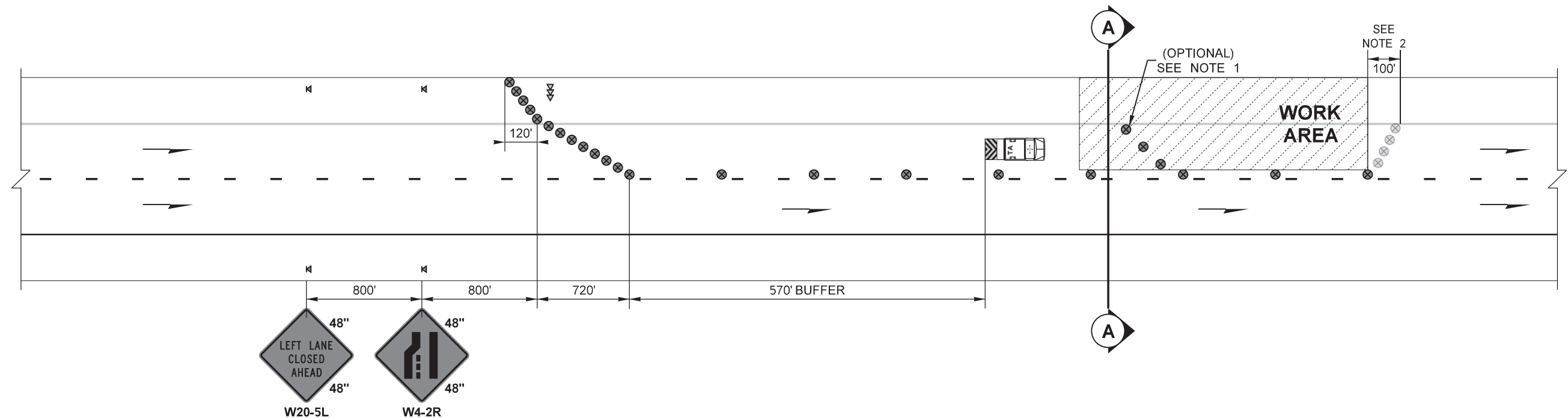
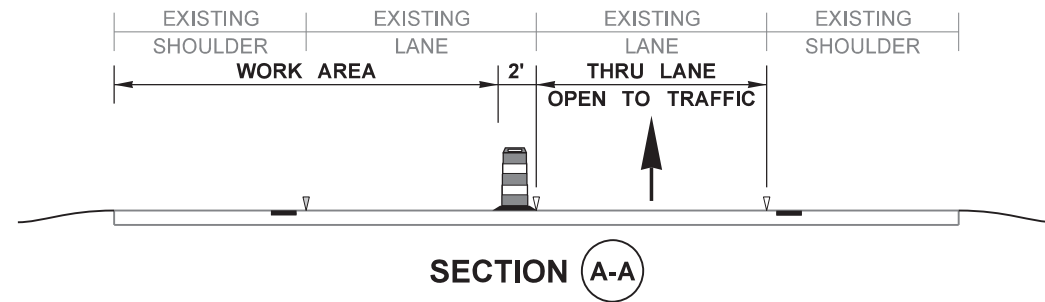
1. IF USED, PLACE DEVICES TRANSVERSELY ACROSS CLOSED LANES AT 45° +/- AND 5' SPACING AT STRATEGIC LOCATIONS.
2. DOWNSTREAM TAPER OPTIONAL ACROSS LEFT LANE. DOWNSTREAM TAPER DEVICE SPACING IS 20'.
3. CONTRACTOR SHALL SHUTTLE BICYCLE TRAFFIC AROUND/THRU WORK ZONE, AS NEEDED.

LEGEND:

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- TEMPORARY SIGN LOCATION (5' MIN HEIGHT)
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR

FREEWAY: SINGLE RIGHT LANE CLOSURE
(EXIT-RAMP OPEN)
NOT TO SCALE

FILE NAME				G:\444302\03 - Design\01422G SR 14 Lieser Rd Br - Emergency Br Repair\20-CADD-Plans\20-2 PS&E Sheets\01422G_PS_TC_TRAFFIC CONTROL PLANS.dgn				Plot 2	
TIME				10:59:25 AM				PLAN REF NO	
DATE				6/15/2023				TC2	
PLOTTED BY				GregorR				SHEET	
DESIGNED BY				R. GREGORIO				42	
ENTERED BY				CGAEO				OF	
CHECKED BY				T. HARTMANN				48	
PROJ. ENGR.				M. BRIGGS				SHEETS	
REGIONAL ADM.				C. FRANCIS				TRAFFIC CONTROL PLANS	
REVISION		DATE		BY		CONTRACT NO.		LOCATION NO.	
						22X347		XL6636	
						FED.AID PROJ.NO.		DATE	
						ER-STBG-2C05001		P.E. STAMP BOX	
						Washington State Department of Transportation		DATE	
								P.E. STAMP BOX	




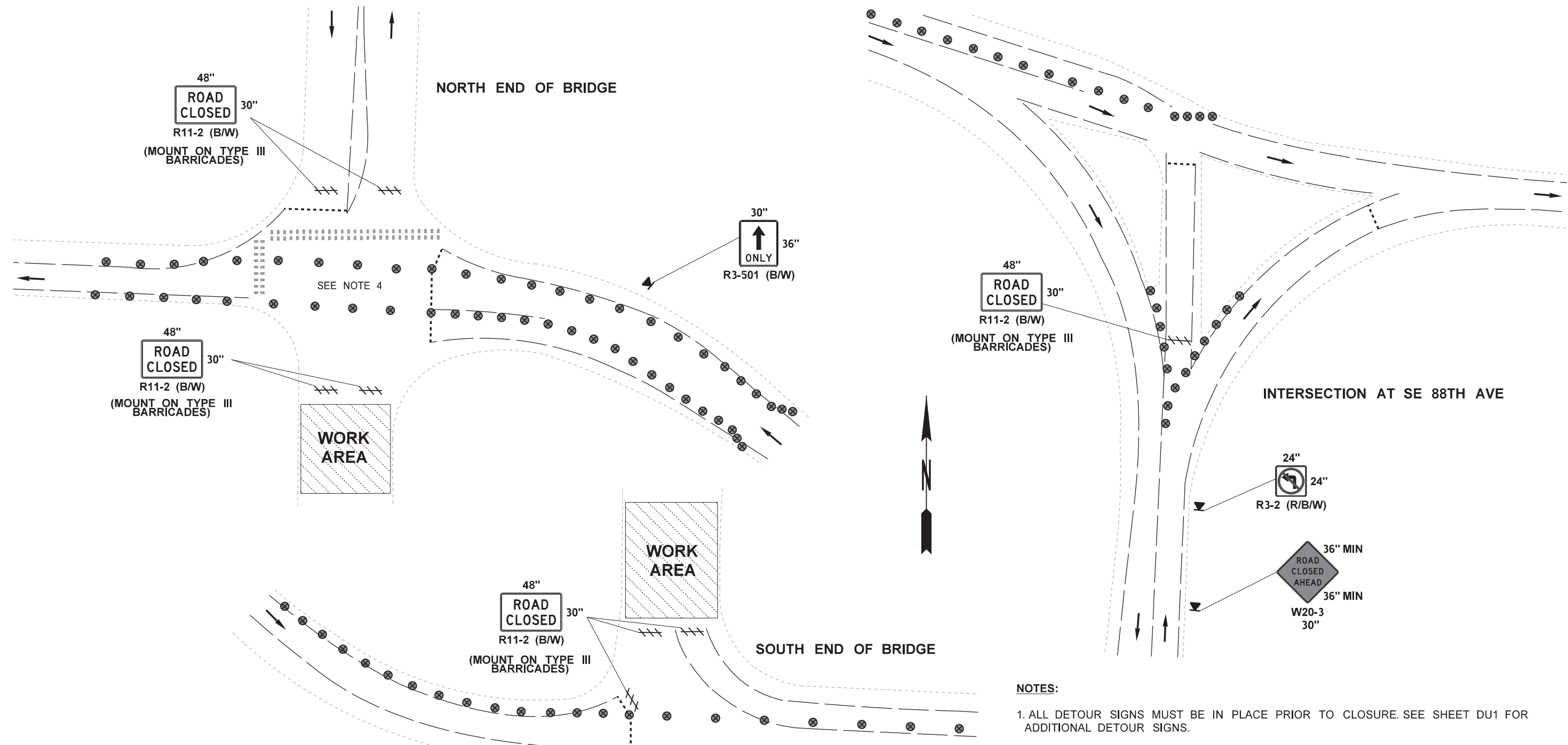
- LEGEND:**
- TEMPORARY SIGN LOCATION
 - TRAFFIC SAFETY DRUM
 - TEMPORARY SIGN LOCATION (5'MIN HEIGHT)
 - SEQUENTIAL ARROW SIGN
 - TRANSPORTABLE ATTENUATOR

- NOTES:**
- IF USED, PLACE DEVICES TRANSVERSELY ACROSS CLOSED LANES AT 45° +/- AND 5' SPACING AT STRATEGIC LOCATIONS.
 - DOWNSTREAM TAPER OPTIONAL ACROSS LEFT LANE. DOWNSTREAM TAPER DEVICE SPACING IS 20'.
 - CONTRACTOR SHALL SHUTTLE BICYCLE TRAFFIC AROUND/THRU WORK ZONE, AS NEEDED.

FREEWAY: SINGLE LEFT LANE CLOSURE


NOT TO SCALE

FILE NAME				G:\444302\03 - Design\01422G SR 14 Lieser Rd Br - Emergency Br Repair\20-CADD-Plans\20-2 PS&E Sheets\01422G_PS_TC_TRAFFIC CONTROL PLANS.dgn											
TIME		11:02:21 AM						REGION NO.		STATE		FED.AID PROJ.NO. ER-STBG-2C05001			
DATE		6/15/2023						10		WASH					
PLOTTED BY		GregorR													
DESIGNED BY		R. GREGORIO						JOB NUMBER				LOCATION NO. XL6636			
ENTERED BY		CGAEO						22X347							
CHECKED BY		T. HARTMANN						CONTRACT NO.							
PROJ. ENGR.		M. BRIGGS													
REGIONAL ADM.		C. FRANCIS		REVISION		DATE		BY							
<div><div></div><div>DATE</div><div>P.E. STAMP BOX</div></div>															
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<div><div></div><div>Washington State Department of Transportation</div></div>										<div>SR 14 LIESER ROAD BRIDGE EMERGENCY BRIDGE REPAIR</div>					
										<div>TRAFFIC CONTROL PLANS</div>					
PLAN REF NO TC3															
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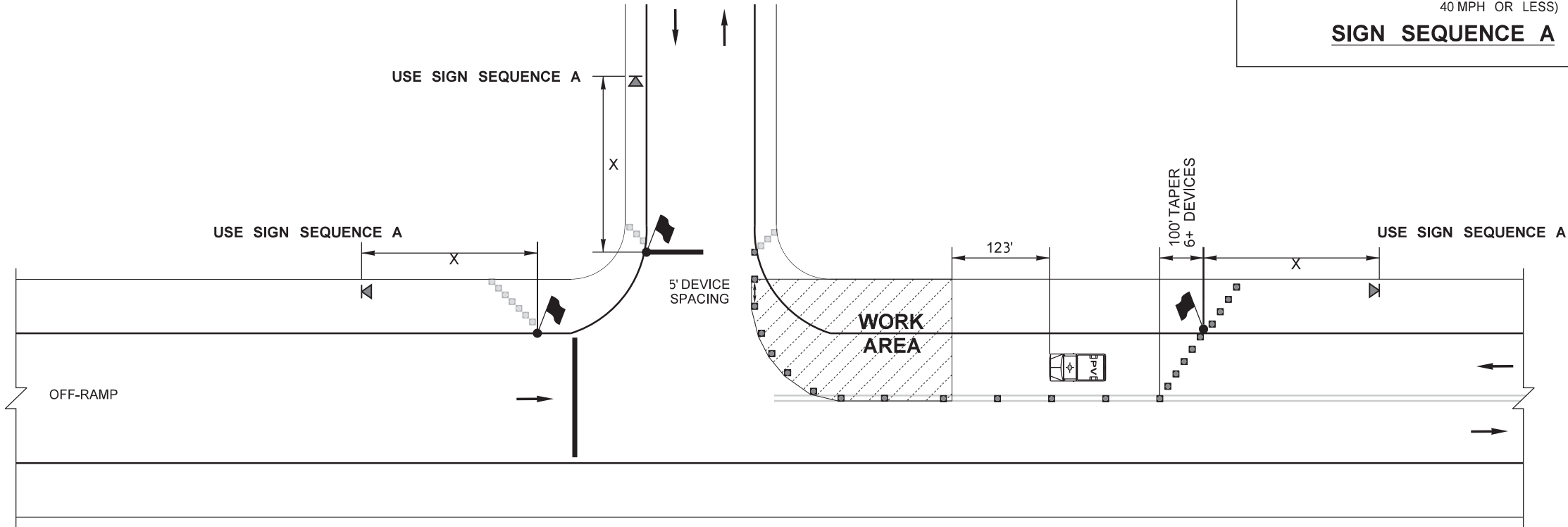
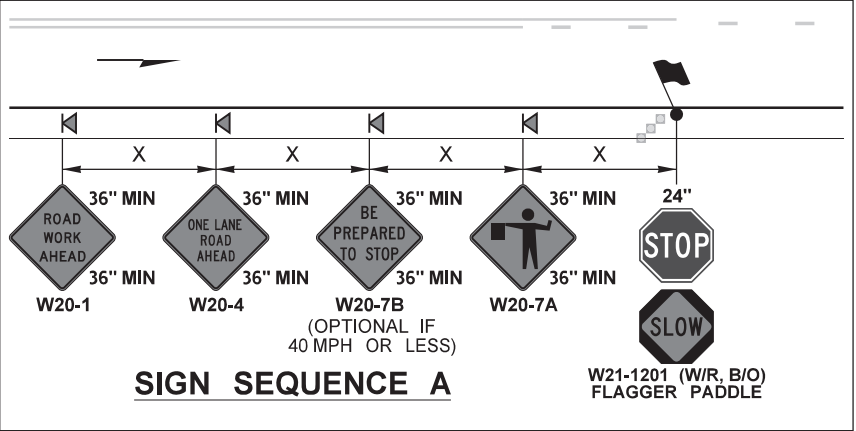


LIESER BRIDGE FULL CLOSURE
NOT TO SCALE

- NOTES:**
1. ALL DETOUR SIGNS MUST BE IN PLACE PRIOR TO CLOSURE. SEE SHEET DU1 FOR ADDITIONAL DETOUR SIGNS.
 2. CONFLICTING SIGNS SHALL BE COVERED IN ACCORDANCE WITH STD. SPEC. 8-21.3(3). ANY DAMAGE TO SIGNS NOT PROPERLY COVERED ACCORDING TO THE STANDARD SPECIFICATIONS WILL BE REPLACED AT THE COST OF THE CONTRACTOR. COVERINGS THAT DEFACE THE SHEETING OF THE PERMANENT SIGNS ARE NOT ACCEPTABLE.
 3. CHANNELING DEVICE SPACING RECOMMENDED AT 20' C/C ON TANGENTS AND 10' C/C ON RADIUS.
 4. SIGNAL CONTROLLED INTERSECTION TO BE TURNED OFF AND WESTBOUND LEFT TURN SIGNAL HEAD AND MAST ARM SIGN FOR LEFT TURN TO BE COVERED DURING BRIDGE FULL CLOSURE PER SPEC. 9-29.16(4). CONTRACTOR SHALL COORDINATE WITH WSDOT SIGNALS PRIOR TO CLOSURES.

FILE NAME										G:\444302\03 - Design\01422G SR 14 Lieser Rd Br - Emergency Br Repair\20-CADD-Plans\20-2 PS&E Sheets\01422G_PS_TC_TRAFFIC CONTROL PLANS.dgn										Plot 5									
TIME										11:11:01 AM										PLAN REF NO									
DATE										6/15/2023										TC5									
PLOTTED BY										GregorR										<div><p>Washington State Department of Transportation</p></div> <div>SR 14 LIESER ROAD BRIDGE EMERGENCY BRIDGE REPAIR</div> <div>TRAFFIC CONTROL PLANS</div>									
DESIGNED BY										R. GREGORIO																			
ENTERED BY										CGAEO																			
CHECKED BY										T. HARTMANN																			
PROJ. ENGR.										M. BRIGGS																			
REGIONAL ADM.										C. FRANCIS										SHEET 45 OF 48 SHEETS									
REVISION										DATE										BY									
REGION NO.										STATE										FED.AID PROJ.NO.									
10										WASH										ER-STBG-2C05001									
JOB NUMBER										22X347										LOCATION NO.									
CONTRACT NO.										XL6636										DATE									
P.E. STAMP BOX										DATE										P.E. STAMP BOX									

SIGN SPACING = X (1)		
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' (2)
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.		



UNSIGNALIZED INTERSECTING ROADWAY DETAIL

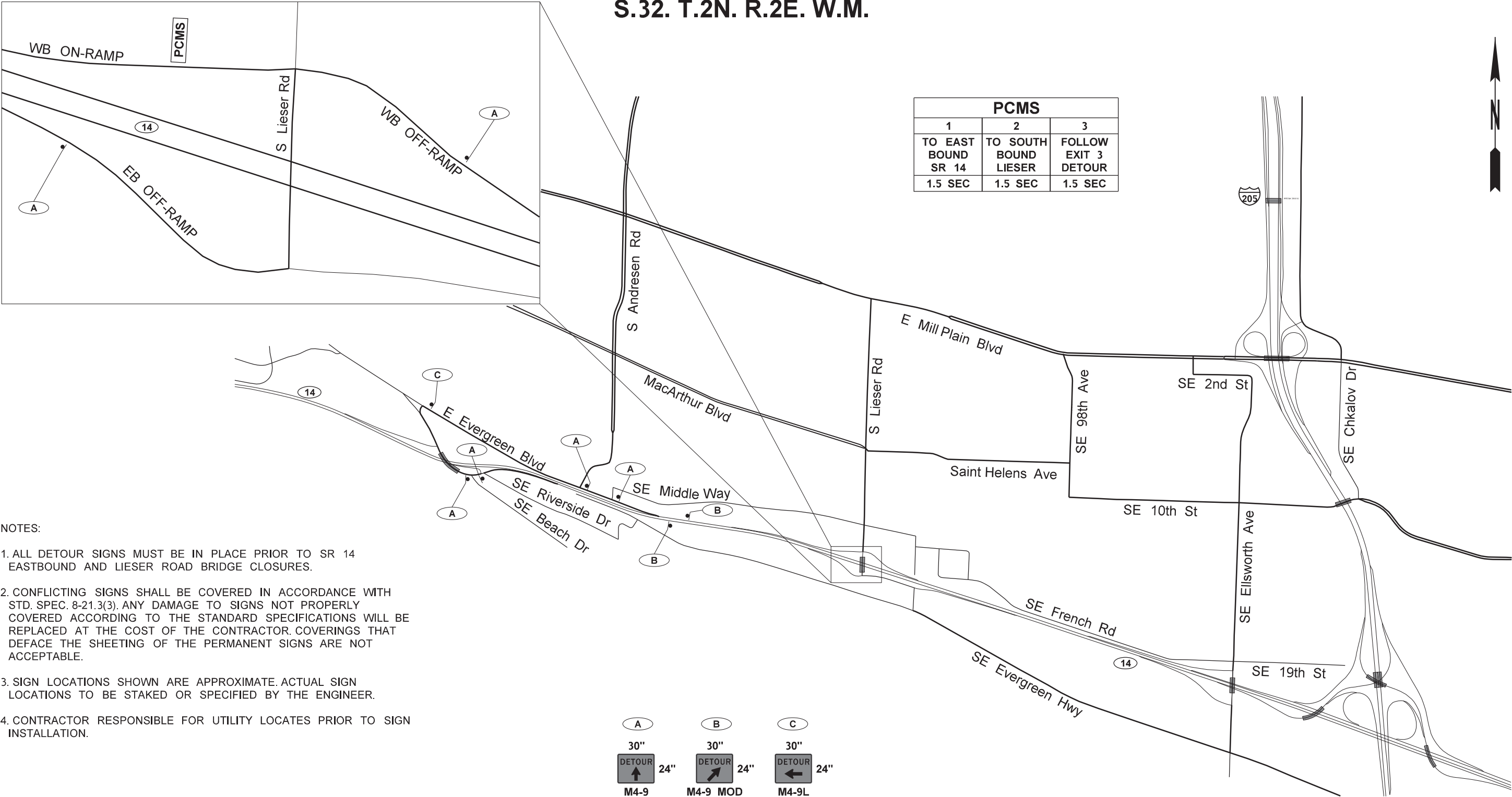
- NOTES:
- INSTALL SIGN W20-7B ON OFF-RAMP AS PART OF SIGN SEQUENCE A.
 - TYPICAL APPLICATION SHOWN, ADJUST FOR SITE CONDITIONS. MAY UTILIZE SHEET TC7 FOR GUARDRAIL REPLACEMENT WORK.
 - NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS, SEE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
 - 36" TRAFFIC CONES, 42" TALL CHANNELIZATION DEVICES, OR TRAFFIC SAFETY DRUMS OK.
 - PAVEMENT MARKINGS MAY VARY.

LEGEND:	
	TEMPORARY SIGN LOCATION
	TRAFFIC SAFETY DRUM
	TRAFFIC CONE
	FLAGGING STATION
	PROTECTIVE VEHICLE
	DIRECTION OF TRAVEL

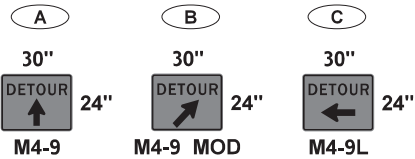
FLAGGING OPERATION
NOT TO SCALE

FILE NAME										G:\444302\03 - Design\01422G SR 14 Lieser Rd Br - Emergency Br Repair\20-CADD-Plans\20-2 PS&E Sheets\01422G_PS_TC_TRAFFIC CONTROL PLANS.dgn										Plot 7	
TIME										11:40:38 AM										PLAN REF NO	
DATE										6/15/2023										TC7	
PLOTTED BY										GregorR										SR 14 LIESER ROAD BRIDGE EMERGENCY BRIDGE REPAIR TRAFFIC CONTROL PLANS	
DESIGNED BY										R. GREGORIO											
ENTERED BY										CGAEO											
CHECKED BY										T. HARTMANN											
PROJ. ENGR.										M. BRIGGS										SHEET 47 OF 48 SHEETS	
REGIONAL ADM.										C. FRANCIS											
REVISION										DATE										BY	
REGION NO.										STATE										FED.AID PROJ.NO.	
10										WASH										ER-STBG-2C05001	
JOB NUMBER										22X347										LOCATION NO.	
CONTRACT NO.										XL6636										DATE	
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- NOTES:
1. ALL DETOUR SIGNS MUST BE IN PLACE PRIOR TO SR 14 EASTBOUND AND LIESER ROAD BRIDGE CLOSURES.
 2. CONFLICTING SIGNS SHALL BE COVERED IN ACCORDANCE WITH STD. SPEC. 8-21.3(3). ANY DAMAGE TO SIGNS NOT PROPERLY COVERED ACCORDING TO THE STANDARD SPECIFICATIONS WILL BE REPLACED AT THE COST OF THE CONTRACTOR. COVERINGS THAT DEFACE THE SHEETING OF THE PERMANENT SIGNS ARE NOT ACCEPTABLE.
 3. SIGN LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL SIGN LOCATIONS TO BE STAKED OR SPECIFIED BY THE ENGINEER.
 4. CONTRACTOR RESPONSIBLE FOR UTILITY LOCATES PRIOR TO SIGN INSTALLATION.



LEGEND:

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PCMS PORTABLE CHANGEABLE MESSAGE SIGN

NOT TO SCALE

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